CGCCAGTGGG TTCTTCCAGG CTTCGAAGTC ATGCTGGTGC TTCCCGAGAA GTCAGCCTGC TATTCCGACA TGGTAAGAGA AAGAAGGCTT GAACATATTA CCTTTCAGGA GGGGACTTGC CCTGATACAG ATCTGATGGG GACCGCACAG GAATTCAAAC ATACTAAAAA AATGGTGAAC GGGACACAGA TGTTAATACC AAATAAAGGA AAAAAAAAA AAAAAAAAA (SEQ ID NO:1) AGTGATGAAG GTTGGGATAA TTATAGTGCC GITIGGITAG GACCTGGGGG TTCGCAGAGC GAAGTGCAGG TCAGCCTGGA CACAGCGTTC CCGCGAAAAT GGTGGGGACA AATCCTTTGG GCTGAATCTG TGTCTCCTCT TGTCCGGAAG CGGCAAAGGA AGGAAGAGCG TTACAGTATG TAGATGAAAA CATTCTCGTT AATAGAGTTT GAAGAATGCA AAA TGGAGCGCGG ACCTTTTAT AAAAAAAAA GGGCCTCCAG CAACAGCAGA IGTICICITI CTCCAGCCTT TCACTTTGCT ATGCTATGAA TCATTTTTG GATCCCCCAA TCATGGAATA GAGGACCAGT AGCCTGAGAA TTTGGATCTG AAGATAGCTT AGTGTATGGG CATTGTTATA AAAAAAAA AAAAAAAA TGAGCAACTT TITGGCIGIL TTTGGGAAGT AAAAAAAAA ACAGATCGCA AGTICAAATA CGAGACATCA AGCCTTTGGC ATTGCCAGCC CTTTATGACT ATTAAGCACG TAGGTTGTGG GGGGACATCT CTTTATCTGG GCTGGTGGAT TCCTCCTAAG AGACCGTGGC TTTTTAGGAG ATGCCCTCTT GTTACAGGAG CAAGCCCGTG GAATAGATAT CTGAGCTGAT AAAATGGAAT GGAGCAGGTT GCGGGGCGGA AGAAGTCTTG GAAAGCAACC CAAAAATCAC AATGTTTGG AAATGCTTAA GAGATGTTGA TGCTGAACCC GGAAACCACC GGGATATTAG TCTGATGAAG CCATAGCTGA TATTGGCCCA TCTCGAAGCA TGTCACTTT TTTACCTAG ATACGIGCAT GACACATCAA AAGATGGTAA GTGTTCTTGG ACCATTTCCC CTCCAAGACA AAAAAAAAA 1101 251 351 501 651 701 801 901 001 201 301 401 451 551 601 751 851 1051

# FEATURES:

5'UTR: 1-53 Start Codon: 54 Stop Codon: 825

3'UTR:

FIG. 1A

0.0 0.0

Score

e-144

831 743 517 492

eins:	ts
protei	Hi
gnobo	BLAST
olog	10
Home	Top

				Score	ы
CRA 18000005161385 /	/altid=gi 3360512		/def=gb AAC27932.1  (AF070	465	e-130
CRA 18000005168811 /	/altid=gi	3599509 /	def=gb AAC72823.1  (AF086	464	e-129
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CRA 89000000196974 /	/altid=gi   7294566		/def=gb AAF49906.1  (AE003	213	4e-54
CRA 84000015363786 /	/altid=gi 13648270		/def=ref XP_008814.3  Rho	209	5e-53
CRA 67000040980049 /	/altid=gi   13592049		/def=ref NP_112360.1  Rho	209	5e-53
CRA 18000005044861 /	/altid=gi	6677759	/def=ref NP_033097.1  Rho	209	5e-53
CRA 18000005028208 /	/altid=gi   4885583		/def=ref NP_005397.1  Rho	209	5e-53
CRA 18000005169610 /	/altid=gi   3628755		/def=gb AAC36189.1  (U4242	209	5e-53
CRA 18000005236627 /	/altid=gi   5174413		def=ref NP_006026.1  CDC4	206	3e-52
BLAST hits to dbEST:					

# BLAS

/taxon=960	/taxon=96	/taxon=96	/taxon=96
/dataset=dbest	/dataset=dbest	/dataset=dbest	/dataset=dbest
gi   14343911	gi 11292270	gi   12111020	gi 12362084

# EXPRESSION INFORMATION FOR MODULATORY USE:

brain, glioblastoma with EGFR amplification blood, Proliferating Human Erythroid Cells library source of BLAST dbEST hits: gi|14343911 blood, Proliferating H gi|11292270

Tissue source of cDNA clone:

whole liver

FFEEERNILS DLLSLLNRYE DQLDENLIQF MLKFKYGARN PLDAGAAEPI ASRASRLNLF FQGKPPFMTQ QQMSPLSREG **QPSAKDFEVR** GSAAKMINSNK YLAELILAVH SVHLMGYVHR DIKPENILVD RTGHIKLVDF KALLAQEQVS SDTIAELQEL VQVVREKATG DIYAMKVMKK RSTSPWIPQL QYAFQDKNHL YLVMEYQPGG KHVSNFVRKY ILDALFVLFE ECSQPALMKI (SEQ ID NO:2) SLVGCGHFAE MVKNGIR 151 201

FEATURES:

Functional domains and key regions:

Prosite results:

CAMP- and cGMP-dependent protein kinase phosphorylation site PDOC00004 PS00004 CAMP PHOSPHO SITE

78-81

PDOC00005 PS00005 PKC\_PHOSPHO\_SITE

Protein kinase C phosphorylation site

Number of matches:

93-95

SNK 248-250 2

PDOC00006 PS00006 CK2\_PHOSPHO\_SITE

Casein kinase II phosphorylation site

Number of matches:

TIAE 83-86 7

SAKD 93-86

SFFE 140-143

PDOC00008 PS00008 MYRISTYL N-myristoylation site 50-55 GILDAL

PDOC00100 PS00107 PROTEIN\_KINASE\_ATP Protein kinases ATP-binding region signature 103-126 VGCGHFAEVQVVREKATGDIYAMK PDOC00100 PS00108 PROTEIN\_KINASE\_ST Serine/Threonine protein kinases active-site signature 217-229 YVHRDIKPENILV

Membrane spanning structure and domains:

Helix Begin End Score Certainty 1 197 217 0.789 Putative

FIG 2R

(AF070065) norvegicus /taxon=10116 /dataset=nraa /length=448 Citron-K kinase [Rattus norvegicus] /org=Rattus >CRA|18000005161385 /altid=gi|3360512 /def=gb|AAC27932.1| BLAST Alignment to Top Hit: Length = 448

(848) Identities = 228/251 (90%), Positives = 240/251465 bits (1183), Expect = e-130Frame = +3Score =

233 MLKFKYGARNPLDAGAAEPIASRASRLNLFFQGKPPFMTQQQMSPLSREGILDALFVLFE MLKFKYG RNP +A A EPIASRASRLNLFFQGKPP MTQQQMS LSREG+LDALFVL Query: 54

9 MLKFKYGVRNPSEASAPEPIASRASRLNLFFQGKPPLMTQQQMSALSREGVLDALFVLLE Sbjct:

413 ECSOPALMKIKHVSNFVRKYSDTIAELOELOPSAKDFEVRSLVGCGHFAEVQVVREKATG Query: 234

ECSQPALMKIKHVS+FVRKYSDTIAEL+ELQPS +DFEVRSLVGCGHFAEVQVVREKATG

120 **ECSQPALMKIKHVSSFVRKYSDTIAELRELQPSVRDFEVRSLVGCGHFAEVQVVREKATG** 61 Sbjct: 593 DIYAMKVMKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKNHLYLVMEYQPGG D+YAMK+MKK AL AQEQVSFFEEERNILS+STSPWIPQLQYAFQDKN+LYLVMEYQPGG Query: 414

180 DVYAMKIMKKAALRAQEQVSFFEEERNILSQSTSPWIPQLQYAFQDKNNLYLVMEYQPGG Sbjct: 121 773 DLLSLINRYEDQLDENLIQFYLAELILAVHSVHLMGYVHRDIKPENILVDRTGHIKLVDF Query: 594

240 DLLSLLNRYEDQLDEN+IQFYLAELILAVHSVH MGYVHRDIKPENIL+DRTGHIKLVDF

DLLSLLNRYEDQLDENMIQFYLAELILAVHSVHQMGYVHRDIKPENILIDRTGHIKLVDF Sbjct: 181

806 GSAAKMNSNKM Query: 774

GSAAKMINSNK+

(SEQ ID NO:4) 251 GSAAKMNSNKV Sbjct: 241

233 413 240 120 593 180 773 9 ECSOPALMKIKHVSNFVRKYSDTIAELQELQPSAKDFEVRSLVGCGHFAEVQVVREKATG DVYAMKIMKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKNNLYLVMEYQPGG DLLSLLNRYEDQLDENLIQFYLAELILAVHSVHLMGYVHRDIKPENILVDRTGHIKLVDF MLKFKYGARNPLDAGAAEPIASRASRLNLFFQGKPPFMTQQQMSPLSREGILDALFVLFE MLKFKYGVRNPPEASASEPIASRASRLNLFFQGKPPLMTQQQMSALSREGMLDALFALFE DFLSLLNRYEDQLDESMIQFYLAELILAVHSVHQMGYVHRDIKPENILIDRTGEIKLVDF ECSOPALMKMKHVSSFVOKYSDTIAELRELOPSARDFEVRSLVGCGHFAEVQVVREKATG MLKFKYG RNP +A A+EPIASRASRLNLFFQGKPP MTQQQMS LSREG+LDALF LFE DIYAMKVMKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKNHLYLVMEYQPGG D LSLLNRYEDQLDE++IQFYLAELILAVHSVH MGYVHRDIKPENIL+DRTG IKLVDF ECSQPALMK+KHVS+FV+KYSDTIAEL+ELQPSA+DFEVRSLVGCGHFAEVQVVREKATG D+YAMK+MKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKN+LYLVMEYQPGG >CRA|18000005168811 /altid=gi|3599509 /def=gb|AAC72823.1| (AF086824) rho/rac-interacting citron kinase [Mus musculus] /org=Mus musculus /taxon=10090 /dataset=nraa (92%) 227/251 (90%), Positives = 242/251 464 bits (1180), Expect = e-129/length=2055 Length = 2055Identities = Query: 234 414 Query: 594 Sbjct: 181 Sbjct: 121 Query: 54 61 Score = Н Frame Sbjct: Sbjct: Query:

FIG. 20

(SEQ ID NO:5)

251

GSAAKMNSNK+ GSAAKMNSNKV

Sbjct: 241

GSAAKMINSNKM

Query: 774

180 773 240 233 413 120 593 9 DVYAMKIMKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKNNLYLVMEYQPGG DLLSLINRYEDQLDENLIQFYLAELILAVHSVHLMGYVHRDIKPENILVDRTGHIKLVDF ECSQPALMKIKHVSNFVRKYSDTIAELQELQPSAKDFEVRSLVGCGHFAEVQVVREKATG DFLSLLNRYEDQLDESMIQFYLAELILAVHSVHQMGYVHRDIKPENILIDRTGEIKLVDF MLKFKYGARNPLDAGAAEPIASRASRLNLFFQGKPPFMTQQQMSPLSREGILDALFVLFE MLKFKYGVRNPPEASASEPIASRASRLNLFFQGKPPLMTQQQMSALSREGMLDALFALFE ECSOPALMKMKHVSSFVQKYSDTIAELRELQPSARDFEVRSLVGCGHFAEVQVVREKATG DIYAMKVMKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKNHLYLVMEYQPGG ECSQPALMK+KHVS+FV+KYSDTIAEL+ELQPSA+DFEVRSLVGCGHFAEVQVVREKATG D+YAMK+MKKKALLAQEQVSFFEEERNILSRSTSPWIPQLQYAFQDKN+LYLVMEYQPGG D LSLLNRYEDQLDE++IQFYLAELILAVHSVH MGYVHRDIKPENIL+DRTG IKLVDF MLKFKYG RNP +A A+EPIASRASRLNLFFQGKPP MTQQQMS LSREG+LDALF LFE >CRA|18000005168810 /altid=gi|3599507 /def=gb|AAC72822.1| (AF086823) musculus] /org=Mus musculus /taxon=10090 /dataset=nraa rho/rac-interacting citron kinase short isoform [Mus (95%) 227/251 (90%), Positives = 242/251 464 bits (1180), Expect = e-129 /length=494 Length = 494Identities = Query: 594 Query: 414 Sbjct: 181 Query: 234 Sbjct: 121 54 61 Score = ٦ Frame Query: Sbjct: Sbjct:

FIG. 2E

(SEQ ID NO:6)

251

GSAAKMINSNKV

Sbjct: 241

806

GSAAKMNSNKM

Query: 774

GSAAKMNSNK+

Hmmer sea	й		
Scores f	for sequence family classification (score includes all domains)	(score includes all	domains):
Model	Description	Score	E-value
PF00069	Eukaryotic protein kinase domain	131.2	1.9e-35
CE00359	E00359 bone_morphogenetic_protein_receptor	_receptor 5.8	0.57

Parsed for domains:	or domai	ns:							
Model	Domain	sed-f	seg-f seg-t		hmm-f	hmm-f hmm-t		score	E-value
CE00359	1/1	219	249	:	274	304	:	5.8	0.57
PF00069	1/1	97	256	:	Н	. 147 [.	÷	131.2	131.2 1.9e-35

# FIG. 2F

_	~~~~~	~~~~~~~~	amama a aa a a		3330300000
	GGGTGACGGA				
51		GTAGCTATCC			
	ATGTTTGGGG				
151		TGCTGGTGTG			
	AACACATCTC				
251	CTTTACATAT		<del>-</del>		
301		TTAATCATTA			
	GTTAAGAAAT				
401	CCAACCCCAG	GTAACTACTA	TTCTGGCTGT	TGCTTTCTTT	ATGGTTTTGT
451	CATTACTTTA	AACAATGACA	AAAACTGCAA	TGATTTGCAT	CAACCTAATA
501	CATCCCTCCT	TAAACAATGT	TGCTTTGTTT	TGTCCTGTTT	TGGAACTTAT
551	AAGAATGGAA	TCATAATGGA	ATCATATGTT	ATTTTCTTGC	TTCCTTCATT
601	AGGCCTTGTT	TTGAGACTCA	TTATGTCATT	GTGGTTAGTT	GCAGTTTATT
651	CTTTTTCATT	GCTTGTGAAA	ACACTGCAAT	ATACAATTTT	GTCTTTTCTA
701	CTGCTGATGG	ACATTTATAT	CACTTCCAGT	TTTTTGCGAA	CACTATTTTG
751	TATTCTTATA	CACATCTCTT	GGTGTACATA	AGTAGGAGTT	TCTCGCCGGC
801	GTGGTGGCTC	AGGGCCTGTA	ATCTCAGCAC	TTTGGGAGGC	CGAGGTGGGC
851	AGATCACTCG	AGGTCAGGAG	TTCAAGACCA	GCCTGGCCAA	CACGGTGAAA
901	CCCCATCTCT	ACTAAAAATA	CAAACAATTG	GGCATGGTGG	CATGCACCTG
951	TAATCCCAGT	TACTTGGGAG	GATGAGACAA	GAGAATAGCT	TGAACCTGGG
1001	AGGTGGAGGT	TGCAGTGAGG	CGAGATCGTG	CCATTGCACT	CCAGCCTGGG
1051	AGACAGAGCA	AGACTCCATC	TCAAAATAAA	TAAATAAATA	GGAGTTTTTC
1101	TTAGGTAGAG	AAACTACACC	TAGCAATAGT	CATAGAATGC	ACAAATCTTC
1151	AATGTTAGCA	AATAATGCCA	AACTTTTTTT	TCAAATTTCA	AAGAGATTGT
1201	ATCCATTTAC	ACGCCTACGG	GTACTGTATA	AGTGTGTGTA	CTTCCACATC
1251	TTCGCAAACA	CTGTCACATC	CTTTTGTTGT	TGTTGTTCTC	GAATTTGAGT
1301	GTTATTCTTT	CTCACTGTGA	CTTTATTTTT	CATATTTTCT	GATTATGAAC
1351	GAGGTTGACA	ACTTTCACAC	ATTTGTTGGT	CATCTGGATT	TCCTTTTTGG
1401	TGAAGTGCCT	GTTTAAGTAT	CTCGTCTATA	ATTTATTTA	AAGTGTCCTT
1451	TCAGACAGTC	TCAATGACTG	TCACCAACTC	CTTGCAGGGC	AGTCAGCCCG
1501	GAGATAGAGT	AATCAAGGTA	GGTTGAAGTC	AAGCTCAAAA	CATTCGCTGC
1551	CTCAGCTGTA	GCAGAGGACC	ACTGGGCTTC	CCCAGGTAAC	AAGTACTTCT
1601	ACCTTAGCCA	CATGAGAGAG	AAAGAAGACC	AGGCAGAGCA	GCCTGGCTGC
1651	CTTCCTCCTT	GCAGGTGGCC	GAGAGCAGGG	GACAGCGCCC	TGGCGACCTC
1701	CTCAGGGATC	CTAGATTAAC	AGTCGCGTCC	TCAAACGCAG	CATCCTGCGT
1751	AACCGCCAAT	TTCAAACTTC	CAAGACCTGC	CCTGCTGATT	TTGCCCTTCC
1801	CTTTTTCCCG	TTGGTCGCGA	GTCAAAGGAA	GATGCAATTT	GATTGGCTCT
1851	CCCCTTCACT	TTCCTCCATG	CCTTTAGGGA	CATGGGCGGG	GCCTGGCTGA
1901	GACGCCCATG	TCTATCATAG	GAGCGGAGAC	GCTGATTGGT	CCAAACACGG
1951	CTGAGACCCG	CCCGCGCCGT	TCCTCGGGTT	CAAACGCGGC	GGCGGGAGGC
	GCGGGGCGGA				
	TCCCCCAGAC				
	CCGCCTCCAC				
	GGCGATTCCA				
					AGCCGAGTGG
	TGCTGGGGCA				
-			<del>-</del>		

		~~~~~~		amaaa mma mm	CECCCCC CEC
	CTCTTCAGCT				
2351	TAGTCGGCCG		ATCTGCGTGA		
2401	TCTCTGTTTC		TACCCCGTGC		
2451	GCCCCCGCCT		GCTCCAGTCC		
2501	GAGAGGCCAG		AGTGCTTTTG		
2551	ACGGATGTCT		AGATATCAAC		
2601	TTCAGGTCTT		GTCAAATGGT		
2651		CTAAAAATTG			
2701	CTCGATTTTG				
2751		ATTTCAGTCA			
2801	GTGCCAGGCT	ATGTGTGCCC	CCACTGCATG	GGGGCAAACA	TCTCTGCCCT
2851	TGTGGAGCTT	CCATTCTAAG	GGGGGAGATA	ATAAACACAT	TTATAAGTAA
2901	GAGAGTATGT	CAGATAAGTG	TATCATCTCC		
2951	TGGTGTTTAA	TCTCCATGAT	TAGACTGAGC	TTCCTAAAAC	TGGAGTGGTA
3001	GCTGATTTTC	ACCTCCTTGT	CCCTGATATC	TTGAGGGAGA	TCAGGATCTC
3051	TCAGGCCCTT	CCTGCTCAAA	ACATAGGACA	CACTTGACTT	TTCTGATATC
3101	CTTTCAGCGC	CAGTGGGGAG	ATGTTGAAGT	TCAAATATGG	AGCGCGGAAT
3151	CCTTTGGATG	CTGGTGCTGC	TGAACCCATT	GCCAGCCGGG	CCTCCAGGCT
3201	GAATCTGTTC	TTCCAGGTAA	CAGCCTACCC	TGCCAACTTT	GCTCACCTGT
3251	GTGTGTCCTT	GGAATCTCCT	TGTCACTCAC	CTTTGCTTTT	ATTTATTTGT
3301	TTATTTATTT	AGAGTCTCAG	TCTCTCAGGC	TGGAGTACAG	TGGTGCAATC
3351	TCAGCTCACT	GCAACCTCCG	CCTCCTGGGT	TCAAGCGATT	CTCCTGCCTC
3401	AGCCTCCAGA	GTAGCTGGGA	CTACAGCCGC	CTGCCACCAC	ACCCGGCTAA
3451	ATTTTGTATT	TTTCTTTTTA	GTAGAGACGG	GGTTTCACCA	TGTTGGCCAG
3501	GCTAGGGTCG	AACTCCTGAC	CTCAAGTGAT	CCACCTGCCT	TGGCCTCCTA
3551	AAGTGCTGGG	ATTACAGGCA	TGAACCGTGC	CCAGCTTGCT	TTTATTATAG
3601	GACCAGGGAT	AATATTTTAG	GGGAAATTCT	GTTTTGTTTT	GTTTGAAACA
3651	AGGTCTTCTG	TCGACTCTAG	GCCTGTGCCA	CCATGCCTGG	CTAATTTTTT
3701	AATTTTTTGT	AGGGATGGGG	TCTCACTGTG	TTGCCCAGGC	TGATATAGAA
3751	CACCTGACTT	CAAGTGAGCC	TCTTGCCTTG	GCCTCCCAAA	GCACTGGGGT
3801	TATAGGTGTG	AGCCACTGCA	CCTGGCCCTC	TATTTAGAGT	TTTATATGCA
3851	CTGATTCTTT	TGGAAAAAAG	ACACTGTGCA	GAAGTAGATA	GCTGAACTTG
3901	CCTTAGAAGG	GAGATCTTTT	CATATTTCTC	ACACTTTACA	CTTCTGTACT
3951	AAAGTTTATT	CATTCATTGA	TTGATTGGTT	GCTTGCAAGA	CAGGGTCTTG
4001	CTCTGTGGCT	CAGGCTGGAG	TGCATTGGCA	CAATCACGGC	TTACTGCAGC
4051	CTTGACCTCC	TGGGCTCAAA	CGATCCTCCC	ACTTCAGCTT	CCTGAGTAGC
4101	TGGGACCACA	GGTGTGTGCC	ACCATACCTG	GCTAATTTTT	GTATTTTTTG
4151	TAGAGATGAG	GTTTCACCAT	GTTGCCCAGG	CAGGTCTCGA	ATTCCTGGGC
4201	TCAAGTGATC	TACTTGTCAC	AGCTTCTGCA	AGTGTTGGGC	TTACAGGCAT
4251	AAGCCCCTGT	ACCAGGGCAA	GTTTGTCCTT	TTATTGAAGA	AAGAAAAATA
4301	AATGAACAAA	GATGCTTTTT	AAAACTACAA	TTTCTGTGGG	TATAATCCTA
4351	TTCATTTTCA	TTGCAGGGAT	GTTTATTTTT	TAAGATTTTT	TTTTTTTTT
4401	TTTGAGACAG	AGTCTTCGCT	GTCGCCCAGG	CTGGAGTGCA	GTGGCGCGAT
4451	CTCGGCTCAC	TGCAGGCTCT	GCCCCCGGG	GTTCACGCCA	TTCTCCTGCC
4501	TCAGCCTCCC	ACGTAGCTGG	GACTACAGGC	GCCCGTCACC	TCGCCCGGCT
4551	AATTTTTTGT	ATTTTTAGTA	GAGACGGGGT	TTCACTGTGT	TAGCCAGGAT

4501		3 3 C 3 mmmm 3 3	2 2 2 2 2 COOMMO	G2 MG2 2 M2 GG	3 C3 CCMCMMM
		AAGATTTTAA			
		CCTCTCAAGA			
		CATAAGATTA			
		TGGAACACTG			
		CAGGGGGACA			
		CACTAGTTAG	•		
		ATTTGCTATT			
		AGGCTGAGGC			
		ACAACGTGGT			-
		CATGGTGGTC			
		GGAGAATCAT			
		GCACTGCACT			
		CAAAACAAAA			
		TAATCCACAG			
		CTTAGCACCT			
		ATTGTTAATA			
		TTTGTTTCCT			
		CTGTAAGATG			
		CAAAATATTG			
		AAGCTTAGGT			
		CATATCTTTC			
		GCTGCCACGT			
		TGCTGGGCGT			
5751	GGGAGGCTGA	GGTGGGTGGA	TTGCTTGAGG	TCAGGAGTTC	GAGAGCAGCC
5801	CGGGCAACAT	GGTGAGCCCC	TCCGTTTCTA	CTAAAAACAC	AAAAAATAGC
5851	TGACTGTGAT	GGTGTGTGCC	TGTAGTCCCA	GCTACTCGGG	AGGCTGAGGC
5901	AGGAGGATCA	CTTGAGCCCT	AGAGGCAGAG	GTTGCAGTGA	GCTAAGATTG
5951	TGCCACTGCA	CTTCAGCACT	TCAGCCTAGG	CGACAGAGCA	AGACCCTGTA
6001	AATTAAAAAA	AAAAAAAAA	AGAAAAGGAA	AAAAATTTCC	AACTTATTAA
6051	GGGCTTATAG	TGTGCTGATT	ATGTAATAGT	TATGGCTTCC	AATGTGTCTG
		GGCATGTTTC			
		TTTTTAATTT			
		ACACCTGTAA			
		GTCCAAGAGT			
		CAAAAAATAT			
		AGCTACTCAG			
		GGTTGTAGTG			
		ACGAGACCCT			
		ACAGATATGG			
		TTGCAGATGA			
		AGGCTGACCA			
		ATTAAGTATA			
		ACCCTCAGTT			
		TATTATTGCA			
		AAGGATGCTG			
6851	ATGAGGTTGA	GATACAGTAG	CAATTTTGTT	TTCCATTCAG	GTGAGTACCT

6901		GTCATTTTGT			
6951	GACATGTTCG	AGGTCAGTGA	TTGTCAGACT	TTCTGAGCCA	GCAAAATTTC
7001		GGGTAGACAC			
7051	. AGGATATATA	AAAAAAAAT	AAAAAGAAAG	ACCTATTATT	TTCTGGCCCT
7101	TGTATTTCAT	AAAGGGCATT	TTAAGAAACA	ACAAGACAGG	AAGAACATCA
7151	. TCTCAGAATA	AAGGACCATT	TTTAAATTTG	AATACATTTA	GTTTTATAAA
7201	AAAGATATCA	TGTGGTGTTC	ATTTTTTCTC	ATTTCACTGC	AGGCTGTTGA
7251	. AAACTTTGTT	AAGAACCAGT	ACTATATTTG	GGAACCCCTG	CTTTAATTGA
7301		TGAAGAATAG			
7351	. ACTGGCAACT	ATTACTAAAG	TGACAGATAT	GGTGGCCTTG	AATGCAGTGC
7401	TTCCCAAACC	TGATTGAGGT	CTGACTCTCT	TGGGGACCAG	GGTCTCATTC
7451	. TGTTGCCCAG	GCTGGAGTGT	GGCAGCACAA	TCTTGGCTCA	CTGCAGCCTT
7501	TACTTCTTGG	GCTCAAGTGA	TCCTTCTACC	TCAGTCTCAC	AAGTGGCTAG
7551	. GACTACAGGA	CCATGGCACT	ACACCTGGCT	AATTTTTTT	TGTTTGTTTG
7603	. TAGAGATGGG	ATCTCGCTGT	GTTGCCCTGG	CTGGTCTTGA	ACTCCTGGGC
7651	TCAAGTGATC	CTCCCACCTT	GGCCTCCCAA	AGTGCTAGTA	TTCCAGGTGT
7701	GAGCCACCTC	TCCCTGCTGG	GGAACTTGTT	AATAAAACAG	ATTCTAGGCT
7751	ACAGTCTGGA	AAATTCTAAT	TCATTTGGTT	GTGGGGGAGG	GGGGCATAGG
7801	ACCAGAGAAT	GTGTTTGTTT	GTTTGTTTGT	TTTTCTTAAA	TTCTCCAGTG
7851	CTGTTGTGAT	TCAAATGCAG	CCGGTCTGTT	TCTGTTATCA	AGTGCTGTGT
7901	AACAAAGCAC	TCACAAAGTT	TAAAGCAACA	ATGATTTATT	TTTTCTTAGG
7951	ATTCTGTGGG	TTGGCTGGAC	TCAGCTAGGT	AGTTCTGCTT	CATCCTGTGA
8001	TGTCAGCTGG	GGTCACTTGT	GGGGCTACAT	TCAGCTGGGA	TTATGTCTGG
8051	. GACTGGAACA	TGTGGGTGCT	GACTGCTGGC	TGGGGCACCT	TAGTGTTTCT
8101	CACATGGCCT	CTCTTCTCCA	TGAGGTCTTT	CAGTAGTATA	GCCCAGGACT
8151	. CGTAACTTTT	TTTTTTTTTT	TAAGACAGAC	TGTCGCCCTG	TCGCCCAGGC
8201	TGGAGTGCAG	TGGCACGATC	TCTGCTCACT	GCAACCTCCG	CCTCCTGGGT
8251	TCAAGCAATT	CTCCTGCCCC	AGCCTCCCGA	GTAGCTGGGA	TTACAGGCAC
8301	. GTGCCTCCAC	GCCCGGCTAA	TGTTTGCATT	TTTAGTAGAG	ATGGGGTTTC
8353	ACCACGTTGG	TCAGGCTGGT	CTCGAACTTC	TGACCTCGCG	ATCCGCCTGC
8401	CTCGGCCTCC	CAAAGTGTTG	GAATTACAGG	TGTGAGCCAC	TGCACCTGGC
8451	. CGACTCGTAA	CTTTTTTTGT	AAGTAATAAA	TATTTTAGGC	TTTGTGGGTC
8501	. CTGTAGTCTC	TGTTGCAACC	ACTCAACTTG	GCCATGGTAG	CACAAAAGCA
8551	GCTAAAGACA	ATATGTAAAT	GATGGGTGTA	GCTGTGTTCC	AGTAAAACTT
8603	ATAAAAAGTC	CGTGGGCTGG	ATTTGGTCCA	AGGGCTACAG	ATTGCACACC
8653	CCTGGTCTAG	CCCAAGCATC	TGTGCATGGT	GGCTGGCTTC	CCAAAAGTGG
8701	. AAGCTGCTAA	GCTGCCTTTT	TTTTTTTTT	TTTTTTTTT	GAGAGGGAGT
8751	. CTCACTGTGT	TGCCTAGGCT	GGAGTGCGGT	GGTGTGATCT	CGGCTCACTG
8801	. CAACCTCCAT	CTCCCGGGTG	CAGGCAATTC	TCATGCCTCA	ACCTCCCAGG
8853	TAGCTGGGAT	TACGGGTGCC	TACCACCACG	CCTGGCTAAT	TTTTGTATTT
8901	TGGTAGAGAC	AGGGTTTCAC	CATGTTGGCC	AGGCTGGTCT	CAAACTCCTG
8953	ACCTCAAGTG	ATCCACCCGT	CTTGGCCTCC	CAAAGTGCTG	GGATTACAGA
9003	TGTGAGCCAC	CGTGTCTGGC	CGCTTGACAA	GCTTCTTAAA	GGCACTGCCC
9053	. TGAACTGGCA	CAGTGTCACT	TGTGTCACAT	TCTTTTGGTT	GAAGAGAGTC
910	TCAGAGATGG	CACAGATTCA	AAGGCAGGAG	AAATAGACTC	CAGCGCTTAA
915	AGTAAGGAGT	AGCATGTGCC	TACAGAATTG	GAGGAACTGT	TGGAGGCCAT

0001	CMMMC3 3 C3 C	2020020020	mx maax maaa	mmaaaa aama	CC N N TTC N CTC
9201		AGACCACCAC			
9251		GGGTTGCAGA		TGGGGGCCAG	GCAGTGAGTA CTGCAGTGAA
9301		AAGTGGGCCA		AGCATTACTC	AGCTCCAGCT
9351	CTCCCAAACA		CGGGAGGGC		
9401	CAGCGTCATC		GCGAGGCAGT	GTTGCCGGAT	GTGCCAGTGT
9451	TTCAAAAGAA		CCATTTTTAT	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	GGAATCTCCT
9501	GATTTTGAAA		TAATTCAAAT	TATCTTAAAC	ACTACAGGCC
9551	AAACAAAACA		CTAGAGACAG	TCTGCCAGTT	TGTAACTATT
9601		ATGAGTAAAT	TTGGCTTTAC	GATGGTCACT	CAGTTCTTAT
9651	TACTCTAGGT		AATTAAAAAA		
9701		CACATGAAAG		CCCATTGTTT	CCTATTGTAG
9751		GCATGTCAGA		CCAGAGGAAA	TATTCTCACT
9801	AGCCTCAGAC		GAGGGAGCTT	TTCTTGTTAA	
9851	TGTGCAGTTT	TCCTTCCCAG		AAGAAACCCA	
9901	ATCATGGAAG		ATGACTGTCA	GTTGACGTTG	CTTTAAAGAA
9951	TGAAGCCACA	GAATTGTGCT	GTTAGCATGT	CGTGAGCAGT	TAGTTGAGTT
10001		AATTTACTCT	GTGTGGATGT		AGCTTTTCAT
10051	TATTGACAGT	GTCTCCATCT	GCTGTTTGCT		GAAACCACCC
10101	TTTATGACTC	AACAGCAGAT	GTCTCCTCTT	TCCCGAGAAG	GGATATTAGA
10151	TGCCCTCTTT	GTTCTCTTTG	AAGAATGCAG	TCAGCCTGCT	CTGATGAAGA
10201	TTAAGCACGT	GAGCAACTTT	GTCCGGAAGT	GTAAGTTTGG	GGAACTTTTT
10251	CTTGAAAACT	GTCCTGAGAG		GAAAGATGCT	TGAGGCAGAA
10301	TGAGTTACTG	GTTGATAGTA	GTCGGTAAGA	ACTCTGGTTC	TATATAAGAC
10351	AGATCCAGGT	TCAAATTCAG	GCTGCACCTC	TTATAGCTGG	GAGACCAGGT
10401	AAGTTGGGCT	TCTTGGTTGC	AAGCGACAAA	CTTAATTCAA	AGACTGAATT
10451	TAGGCCAGGT	GCAATGGCTC	ATACCTATAA	TCTCAGCCCT	TTGGGAAGCT
10501	GAGGTGGGTG	AATCGCTTGA	GCCCAGGAGT	TCAAGACCAG	CTTGGGCAAC
10551	ATGGTGAAAC	CCCATCTCTA	CAAAAAATAC	AAAAATTAGC	TGGGTATGGT
10601	GGCTTGCACC	CGTGGTCCCA	GCTGCTGAGG	AGGCTGAGGT	GGGAGGATCA
10651	CTGGAGCCCG	GGAGGTTGAG	GCTCAATGAG	CTGTGATTGT	GCCATTGCAC
10701	TCCAGTCTGG	GTGACAGAGT	GAGACCCTGT	GTGAATAAAA	GAGTGAATTT
10751	ATTGGCTCAT	GAAACTGAGA	AATCCAGGAA	TGAGTTAAGT	TTTAGCTTTA
10801	GGCATAGCTA	GTTCCAGAGA	CCTCAATAAT	ATCCCGTGGC	CCTGTCCTTA
10851	TACTCACTCA	GGGCTGACTT	TCTATTAGGC	AGAGTAGGCA	CGGTGCTTAG
10901	GATCTGTGAT	ATTTAATTTT	AATGAATTTA	ATTACTTTTA	ATTAACTGAA
		ATTTGTTTTA			
11001	ATAATGATTC	TGGATTACAT	TCATCTTTAT	ACTAATGTAG	TCATAAAATA
11051	TAATTTTTGT	TTTTTTTGGA	GACAGAGTCT	TGCCCTATTA	CCCAGGCTGG
11101	ATTGCAGTGG	TATATCATGG	CTCACTGCAG	TTTCAACCTT	CTAGGCTCAA
11151	GCAATCCTTC	CACCCCAGTG	GCTGGGACTA	CAGGCTCACA	CTACCACGCC
11201	CAGCTAATTT	TTGCTTTTTT	CTCTGTAGAG	ATAGGGTCTT	ACTATGTTAC
11251	CCAGGCTGGT	TTCAAACTCC	AGGCTTGAAG	CAGTCTTCCT	GCCTCAGCCT
11301	CCCAAAGCTT	TGGGATTACA	GGTGTGAGCC	ACCATGCCTG	GCCCCATAAA
					GGGCTGAGGA
11401	AGGCAAAAGT	ACCTAGGGCC	TATGAAGTCA	TATATTGGCC	TTGCCTTCAC
11451	CCTGTTTCTG	ACTTTGCTTG	ACTTCCATGT	GATGAGGCAG	TTGGCTGTTA

11501 GTGTCCCAGT TTCATACTCT TACATTAGTG TTTTTCAACC AGTGGGTGAT 11551 TTGACGTTTT CGGTTGTCAG AGCTAGTTGG GGGTGGTGGT GTGTGAGTTT 11601 GGGGGGAAGG GTCCTACTGT CAGTTAATGG GTGAGGCCAG AGATGCCACC 11651 AAACACCTTA CAGTGCACAA AGCAGCCCCC ATAACACAGA ATTATGTAGC 11701 CCACAATGCC AACAGTGCTG AATTTGAGAA ACCCCACCTT GTACAACATT 11751 GCTGTGCAAC CAACCACCCT AAATATTACT GACTTAAAAC AATAGTCACT 11801 GTGGCTGGGC GCGGTGGCTC ATGCGTGTAA GCCCAGCGCT TTGGGAGGCT 11851 GAGGCGGCG ATCACTTGAG GTCAGGAGTT CCAGACCAGC CTGGCCAACA 11901 TGGTGAAACC TTGTCTCTAC TAAAAATACA AGAATTAGCT GAATGTGGCA 11951 GCGGGCGCCT GTAATCCCAG CCATTTGGGA GGCAGAGGCA GGAGAATCGC 12001 TTGAACCTGG GAGGTGGAGG TTGCAGTGAG CCAAGATCTC ACCATTGCAC 12051 TCCAGCTTGG GCAATGAGTG AGACTCTGTC TTAAAAAAAA AAAAAAGTTA 12101 TTGTATTACC TCTTGTGTGT GTAGGTTAAT TGGACTCAGC TGGGGATTCC 12151 TCTGCTCTGT ATTACATTGG CCAGGATTGC AGTCACCTGG GGCTCTCCTG 12201 GGCTGGAATG TGTGAGAGGG CTTACTCAGT GTTTGGTGCC CTGGCTTGGA 12251 GGCTGGGCCC AGCTGGGCCT CTCTCTCTC ATGAAGTTTC AGGGCCTTTT 12301 GCTGTCCACA TGGCACCTCT ATGTGGTCTC CAAATCAGAA GTCAAGGAAC 12351 TACAGCCTGT GATGCCTATT TTGTAAAGAA GGTTTTACTG GAACACAGCC 12401 CTACCCATGT GTTTGTACAG TGCCTATGGC TGCTTTCACA TCATAACAGC 12451 ATTTTATTTC ATTTTATTTA TTTTTTTTTG AGACAAAGTC TCACTCTGGC 12501 TGGAGTGCAG CAGCACAATC ATAGCTCACT GCAGCCTCCA ACTCTTGGGC 12551 TCAAGCAATC CTCCTGTCTC AGCCTCCTCA GTAGCTAGTA CTACAGGCCC 12601 ATGCCACCAC TAATGGCTAA TTTTTTAATT TTGTGTAGAG ATGGGACCTT 12651 GTGAGATTGC CTAGGCTGGT CTTGAACTCC TGGCCTCAAG AAATCCTCCC 12701 ACCTTGGCCT CCCAAAATGC TTGGATTACA GGCATGAGCC ACTGTGCCCA 12751 GCCCACAACA GCATTTGAGT AGTTGTGATA GAGACCAAAT GGCCTACAAA 12801 GCCCAAAATA GTTCCTGTTT GGCCCATTTC GAAAAGGCTT GCTGACCTCT 12851 GAGCTACATG GTCTCTCTAG CAGGACAGCC TCGACGGTAG CTCAGGTTTC 12901 CAAAACACAA AAGTGGAAGC TGCCAGGCTT TCTTAGGGGT TATCCTAGGA 12951 GGGACATAGG ATCTCTTTGA CTGCATTTTA TTGTTTGATG CATGCTCTGG 13001 GGCTGCTCAA ATTCCACCTG AGAGGAAACT ACACAAGGTC ATGAATCCCA 13051 AGAGGACTGG GGCATTGGGT GCTATTTTTG GAGACTGGCT ACCACACCCT 13101 GCCCAATGGT AATCTTCCCT TATCTAGATT AATACAACCC CAGGGAAGAT 13151 TCTAACTTGG CTCTGCTTTG GGTCATTTGC CTCCCTGGAG GTGAGGTGTT 13201 GTGATCGGTT TTGTTGGAAT GCCCAAAGGG GTCAGGGCAG TGTGATTACC 13251 AGGACCTCAT GGAATGGGGG ATGCGTGGTT ATGCAAAGGA GCCGGGGATG 13301 CTGGGTAGAA AAAAAATCAG CATATGTTCA CTATAGTGCT CTTCAGTATT 13351 TTACATGTAC TTTGTTCTCA GTTTTCTCAT CTGTAAAATA GGAATAATGT 13401 ATATCCTTTT TTTTTTTTT TTTTTGGAGT CTTGCTCTGT TGTCCAGGCT 13451 GGAGTACAGT GGCACAATCT CAGCTCACTG CAACCTCCGC ATCCCGGGTT 13501 CAAGTGATTC TCCTGCCTCA GCCTCCTCAG TAGCTGGGAC TACAGGCGTG 13551 CACCACCACA CTCAGCTAGT TTTTGTATTT TTAGTAGAGA TGGGGTTTCG 13601 CCATGTTGGC CAGGCTGGTC TCAAACTCCT GACCTCAAGT GATCTGCCTG 13651 CCTCGGCCTC CGAAAGTGCT GGAATTACAG GCATGAGCCA CCACGCCCAT 13701 TGGGAATAAT GTATATCTAA TGAGGCTGTG TTGGAATTGA ATGAGTTAAT 13751 GCACAGACCA GATTTGTCAT GTTGCCTGGC CCATAGGAGA CAATAAATGG

13801	TACCCAGTAT				
13851				TCATTCTGTT	
13901				AAATTTATAA	
	GGAGGGGAAG				
	GCACCTTCAT				
14051	TTATCTAGAA	TCATTTAGTG	ATCAGAAGAC	TTGGTTTAGT	GGAATGTAGA
14101	TTTTTTTCTA	ATAGACCCCT	CTTCCAGGGA	AATGTTTCAT	ATTTTTGAAG
14151	AGGTTTCCTG	GGGAGTGTTT	AAGAGGCCAT	GATTGAAAAT	GGGTGATTAC
14201	ATTAGTGTGT	TTTCTATTCC	TCCCCTTTTT	GAGTTTCTGT	TTTGGAATGT
14251	AAGCTTTGTT	TTTCTACGTG	GAGAAGGGTC	CCTCAGCTGC	TTCTGCCCAG
14301	GTTTTTTGAA	TCTTCCTATA	GGGATGGAGA	TTTTCTTTGG	GGACTGTTAG
14351	AGAAAATGGA	ATAGAGTGTA	GCTCTGAAGG	AGAAGGATGT	CTCCAGCAGA
14401	AGTACCTCTA	GCCTTGGGCC	AAGGGAGGGA	AGGGAAGGGA	ACGAGCATCT
14451	GGGAACCAGG	GAAGGGATTT	TTGTCTTTCT	TAATTACTCT	TACATCCCCA
14501	GTGCCCAAAA	TAGTGTCTGG	CATATGTTAA	GTCCTTAGTA	AATACTTGTT
14551	GAATGAGTGT	ATGCTCAGTG	AACAAAATAA	ATGGCAAACA	TTAAGCACAG
14601	TATCAGATAA	TTTGTGTAAA	AAATATACAG	CAGTGTTATA	CTAAAACTTG
14651	CACAGAGGCC	AGGTGCAGTG	GCTCACGCCT	GTAATCCCAG	CACTGGGAGG
14701	CCGAGGTGGG	CAGATCTTTG	AGCTCAGGAG	TTTGAGACCA	ACCTGGGCAA
14751	CATGCTGAAA	CCCTGTCTAT	ACAAAAAATA	CAAAAAGTAG	CTGGGGCATG
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14851	TGCTTGAAGC	TGGGAGGTGG	AGGTTGCAGT	AAGCCAAGAT	TGTGCCACTG
14901	CACCCCAGCC	TGGGTGACAG	AGTAAGACCC	TGTCTCAAAA	CACAAAACAA
14951	CACCCCTTC	AAAAAAAATC	CAAAACCACC	ACCACAACAA	AAAAACTTAC
15001	ACAGAAAAGT	GTTGATAATT	GTCAAAATTG	GGCTGTTATT	GGCAATTTGA
15051	CAGTAGCTGA	ATTACTACCA	TTTGAGCTAT	ATTCACTATA	GATAAGATCT
15101	TCAATATATT	TACAACTTTA	GTACTAATGG	GAAAATGATA	ACTTTTGAAA
15151	AGTTTTTTT	TTTTCTTATT	GCAAACAATA	CACAATACAA	TGTTAAATAT
15201	AGAAGGTTAA	ACGTGCATCT	GAGTCTGTTT	GGGCTGCGAT	AATAGATACC
15251	TTAGACTTGG	CAATTTATAA	ACAATAGAAA	TTCATTGCTG	ACAGTTGTGA
15301	AGACTGGGAA	GTCCAAGATC	AAGGCGCCAG	CGAATCTGGT	ATCTGGTGAT
15351	GGCTCCCTGC	TTCAAAAATG	GCGCCTTCTT	GCTGCATCTT	CACCTGGCAG
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15451					
	GGGAGGCCGA				
	GCCAACATGG				
	CCAGGCATGG				
	CAGGAGAATT				
15701	GCGCCACTGC	ACTCCAGCCT	GGCAACAGAG	TAAGACTCCG	TCTCAAAACA
	AACAAACAAA				
15801	TGTACAGGTT	TGTTATGTAG	GTAAACTTGT	CTTGGGGTTT	GTTATAGATT
15851	ATTTCGTCAC	CCAGGTACTA	AGCCTAGTAA	CCAATAGTTA	TTTTTTCAGA
	TTGTCTCCCT				
	GTTCCCTTCT				
16001	GTGAGAACAT	GTGGTATTTG	GTTTTCTGTT	CCTGCATTAG	TTTGCTAAGG
16051	ATAATGTCAG	CCTCTTTTTT	TTTTTTTTT	TTTTTTTGA	TACAGAGTCT

16101 CGCTCTGTTG CCCAGGTTGG AGTGCAGTGG TGCGATCTTG GCTCACTGCA 16151 ACCTCTGCCT CCCGGGTTCA AGTGATTCTC TTGCCTTAGC CTCCTGAGTA 16201 GCTGGGACTA CAGGTGCGCA CCACCATGCC AGGCTAATTT TTGTATTTTA 16251 GTAGAGATAG GGTTTCACCA TGCTGGCCAC GCTGGTCTCC AACTCTTGAC 16301 CTTGTGATCC GCCGGCCTCG TCTTTTTCCC AAAGTGCTGA GATTACAGGT 16351 GTGAGTCACT GCACCCGGCC CAATGTCAGC CTCTTTTTTA GGGAAGTGAT 16451 TTTTTTTTT TTTTTTTTT TTTTTTTTT TAGGTAGAGT CTTGCTCTGT 16501 CACCCAGGCT GGAGTGCAGT GGTGCGATCT TGGCTCACTG CAACCTCCAC 16551 CTCCTGAGTT CAAGCAATTC TCCTGCCTCA GCCTCCTGAG TAGCTGGGAT 16601 TATAGGTGCC TGCCACCACG CCTGGCTAAT TTTTTTGTAT TTTTAGTAGA 16651 GTTGGGGTTT CACCATGTTG GCCAGGCTGG TCTTGAACTC CTGACCTCAA 16701 GTGATCTGCC CAAAATGCTG GGATTACAGG CGGGAGCCAC TGTGGCCAGC 16751 CCCTGCAAGT CCTACCTCTT AATAGTATTA CACTGGGGAT TACATTTCAA 16801 CATGAATTTT GTAGGGGCGA GGGGCACAAA CGTTTAGAAT ATAGCACATC 16851 ACATACATAG TGAGAGAAAA ATCCCTCAAA ATCTTACCTG AGACAATCAC 16901 TGCCAACAGA TTGCTGTATA GTGTGCCAAT TTTGTTTGTG TGTGTGTGTG 16951 CCTTAAAAAT ATTTATTATG GAAATTTAAA AACGTACCCC AAGGTGGCCA 17001 GGTGTAGTGG CTCACGCCTG TAATCCTGGC ACTTTGGGAG CCCGAGGTGG 17051 GTGTATTACT TGAGGTCAGG AGTTTGAGAC CAGCCTGGCC AAAATGGTGA 17101 TACCAGTCTC CTAAAAATAC AAAAATTAGC CGGGTGTGGT GGGCACCTGT 17151 AGTTCCAGCT ACTCGGGAGA CCAAGTCATG AGAATTGCTT GAACCCTGGA 17201 GGCAGAGGTT GCAGTGAGCC AAGACCATGC CACTGCACTC CAGCCAGGGT 17251 GACAGAGTGA GACTCCATCC TAGAAACAAA CAAACAAACA AACAAACCAA 17301 CTAACCAACC AGAGAAAACT CCCTGTCTGT AAGGAGTATG TGTTCTAATG 17351 GATACTGAGC CATCTTGTTC TGTTTAACAT GTGCCTAATG TTCTTTTATA 17401 TGGGCGGACT TGTAGGTTGT TTCAACTTTT CTGTTGATGA ACCTTTAGGT 17451 GGTTTCTGAT TATTTTTGTG TTACAACAGT TTTCATCATT CACATCTTTG 17501 TATGCATCTT TTTTGAGCAC ATGTGCAAGT ATTTCTGTGG ACAATGGATG 17551 ATTCCTAGAA ATTGAAAGTT TGGATTACTG TGTTCCAAAA AAGGAAGCAA 17601 TACACCCAGC TATGTTGGCT TTTGCTCTTG GGTCCAGATG ATTATCTGAC 17701 TTGAGATGGA GTTTCGCTCT TGTTGCCCAG GTTGGAGTGC AATGGCGCGA 17751 TCTCGGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC 17801 TCAGCCTCCT AAGTAGCTGG CATTGCAGGC ATGCGCCACG ACACCTGGCT 17851 AATTTTTGT ATTTTTAGTA GAGATGGGAT TTCTCCATAT TGGTCAGGCT 17901 GGTCTTGAAC TCTTGACCTC AGGTGATCCA CCCGCTTCAG CCTCCCAAAG 17951 TGCTGGGATT ACAGGCGTGA GCCACAGTGC CTGGCCCTCT GACTGCATTT 18001 TCACAGTGTT TTGGGTCCTT ATCTCTACCT CAGTACCTCA ATATTCAGTG 18051 CCCACTGGGC CCTTAGATAC TGCAGCTAAA AGTGCACAGG GGTGGAGTGA 18101 TGTGACGGTT TTGGGGTCAC AGAAGCAGCT GGTATAGAGA GAAGTTGTGA 18151 AGTTTTTTT TTTTTTCCTG AGACAGAGTC TCGCTGTATC CCCTAGGCTG 18201 GAGTGCAGTG GCTTGATCTC GGCTCACTGC AACCTCTGTC TCCCTGGTTC 18251 AAGTGATTCT TATGCCTCAG CCTCCCGAGT AGCTGGGATT ATAGGCATGT 18301 GTCACCATAC CCAGCTAATT TTTGTGTTTT TAGTAGAGAT GGGGTTTCAC 18351 CATGTTGGCC AGGCTGGTCT TGAGCTCCTG ACCTCAGGTG ATCCGCCCAC

18451 CTTTTTTTT TTTTTTAM TANTCATAGG CTGAGCCAT TGGGCCTGGT 18551 TGTTCACCTT AATATCCAA AAGCCTTTAG ATATAGTAG GCCTCTCATC 18551 AATAGCTTCA CAGAATTCCA AAGCCTTTAG ATAAACAAAT GCAGATTTGG 18551 AATAGCATCT CAGAATTCCA AAGCCTTTAG ATAAACAAAT GCAGATTTGG 18651 GACAGGCCA CAGATTCTCAT GTGCAGTTG GAAACCTGGT GCTCCCATA 18601 CAACCCAGG CATACTACAG ATTGGACACT GCTTTAAAGCA ACTTTGTAAA 18701 CAATCCAAGA CATACTACAG AATTAGGAGA GATTAGGAGA ACTTTGTAAA 18701 CAATCCAAGA TCAAGTTCAA TCCAGCAAGT TTTTGGGGAA TTATAAATAC 18801 AAACTCAAAAT ACTGATCCA GAGAAACTT GGAAAGAGGG AAGGAGACA 18851 GGCTTGTTAC AGCATTCCA GGGTAAAAGG GAAACACGG GCAGCTTTA 18901 ATTTTGCTC TCATGGCAT TCCCCATGTA GGAAACAGGG AAGGAGACA 18901 ATTTTGCTC TCATGGCAT TCCCCATGTA GGAACACGC GCAGCTTTA 18901 CCCAAGGGAC CAGAGAGAGG TGTAATCAG ACTGTATATCCT 19001 CCCAAGGGAC CAGAGGAAGG TGTAATCAG ATTTGTTTT 19011 CCCAAGGGAC GAGGATTCA ACTCCACCCG TGCAACAAAG GAACAGGGG 19101 CCCTAGACACA GGAGATTTCA ACTCCACCCG TGCAACAAAG GAACAGGGG 19101 CCCTAGACACA GGAGATTTCA ACTCCACCCG TGCAACAAAG GAACAGGGG 19101 TTGAGACCAC GCTGGGAGAG ACTCCAACT CCCGTGCACAACG GCTCATATAAGC 19101 TTGAGACCAG CCTGGGGTGAC ATAATGACAC CCTACCTGTA ACTGAGAGT 19201 TTGAGAACCAG CCTGGGTGACA ACTCCACTC TGCACCACACAC 19301 TTAAAAATTA GCCACATTGG TGGTTCAGAGG 19301 TTAAAAATTA GCCACATTGG TGGTTCAGGAGT 19301 TTAAAAATTA GCCACATTGG TGGTTCAGGAGT 19301 TTAAAAATTA GCCACATTGG TCCTTGAGAC 19301 TGAGGTTAGA TCCTTTGATT TCCCACTGC CCCACCACCCC AGCTACCTCTA 19301 TTAAAAATTA GCCACATTGG TCCTTGAGAC CCTACCTGTA CAAAAAAAATT 19301 TTAAAAATTA GCCACATTGG TCCTTGAGAC CCTACCTGTA CAAAAAAAATT 19301 TTAAAAATTA GCCACATTGG TCCTTGAGACC CCTACCACCCC 19501 CAGGCTGAGG TGCTAGAGTA CACCACCTGC ATTACTCCC AGCTACCTC 19511 CAGGCTTAGA TCCTTTGATT TCACCACCTC CTCCCACACC CCCCCACCACCACCC 19501 CAGGCTGAGA TCATTGCTC CCTCCACCACC CTCCCACCACC 19501 CAGGCTGAGA TCATTGCTC CCTCAGCCTC CCCCACCACCC 19501 CAGGCTGAGA TCATTGCTC CCTCAGCCTC CCCCAACAC CCCCCACCACCCC 19501 TCAGGATAC TCATTTAAAT AAAAAAACT AAAAAAACT AAAAAATGA AAAAAATGA CCCACCTCC CCCCAAACAC TGCACCTCC CCCCAAACACCCC CCCCCAAACACCC CTCCCAAACA CCCCCTCCCCAAACACCCC CTCCCAAACACCCC CTCCCCAAACCCC CT						
18501TGTTCACCTTAATAATCCAAAAGCCTTTAGATAAGAAATGGAGATTTGG18551AATGGCTTCTCAGAATTCCAAGAAGATTATGTCATGGTTTTGCCTGCAAA18601GACACGTGGTCTGTCTCCTTGTGGAGTCAGAAAGCTGGTGGTCGCCACT18651GACAGGCCCAGAGTTATTAAGTTGGACACTGCTTTAAGCAACTTGTAAA18701CAATCCAAGAATCCAGCAGTTTTTGGGGAATTTTGGGGAATTATAATCA18801AAACTCAAAATACTTGATCTGGAAGAAACTGGAAAGAGGGAAGAAACACA18851GGCTGTTACAACCACTTCATGGGTAAAAGGATGGCTCACATTTGTTTT18901ATTTTGCTCTTCATGGCATTCCCCATGTAGGTGCCCACTATTTTTTTT19001CCCAAGGGACCAAGGGAAGGGTTATTCAGGATGATTGCTGAAGTGAGGG19001CCCAAGGGACCAAGGGAAGGTGTATTCAGCATGATTGCTGAAGTGAGGG19101CTCTGACACAGGCTGACAAAACTCTCAATACCGCGGCACTATTATAAGC19101CTCTGACACAGGCAAGATTCACTCCACCGTGATGCCTGTAAAGGCTGGTAA19201TCCCAGTGCTTTGGGAACCAAGATTGCTCACCTCACCTGTAATGCCTGTAA19251TTGAGACCAGCCTGGGTCACATAATGAGACCATACTCCTCGTCTAGGAGT19301TTAAAAATTAGCCAGATTGTTGGTTGGCCCTTATGTCCAGCTACTCTC19301TGAGTTAGATTCTTTTTTTTTTTTTGACACCTACCTCCAAGCTACTCTC19551CAGGCTGAATGCTCTTTTTTTTTTTTGACACCGAGCGCTCCTCGTCACC19551CAGGCTTCAAGTGT						
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18601 GCACCGTGGT CTGTCTCTT GTGCAGTTGA GAAAGCTGGT GGTCGCCACT 18651 GACAGGCCCA GAGTTATTAA GTTGGACACT GCTTTAAGCA ACTTTGTAAG 18701 CAATCCAAGG CATACTAGAG AATTAGGAGA GATTGCTTT GTGTATGAGC 18751 AATAACAAAAA TCAAGTTCAA TCCAGCAAGT TTTTGGGGAA TTATAATTCA 18801 AAACTCAAAT ACTTGATCTG GAAGAACTT GGAAAGAGGG AAGGAAGACA 18851 GGCTTGTTAC AGCATTGTAC GGGTAAAAGG AAAATACCGT GCAGCTTTTA 18901 ATTTTGGTCT TTCATGGCAT TCCCCATGTA GTGTGCCCTAG ATTTGTTTTT 18951 TACAGTGGTC ACGACTTCAT GTGGATCCAC CCACCACTCT TGCCTGGTTC 19001 CCCAAGGGAC CAAGGGAAGG TGTAATACGG ATGATTGCT AGTGGGTCCACAC ATTTGTTTTT 18951 TGGGGTCTGT GGCTGAGAAG ACTCTCAATA CCGCGGCACT CATTATAAGG 19101 CTCTGACACAC GGACATTTCA ACTCCACCG TGCAACAAAG GAACAGGGTG 19101 CTCTGACACAC GGACATTTCA ACTCCACCG TGCAACAAAG GAACAGGGTG 19101 CTCCAAGTGCT TTGGGAACC AAGGTGGAG GCTAAAAAAATT 19201 TCCCAAGTGCT TTGGGAACC AAGGTGGAG GATTGCTCA ATTGCTTAA 19201 TCCCAGTGCT TTGGGAACC AAGGTGGAG GATTGCTCA ATACACAC 19351 GAGAATGAG TGGGTGAGA ATAATGAGA CCTCACTCTA CAAAAAAATT 19301 TTAAAAAATTA GCCAGATTGG TGGTGTGGCC CTACACTCC AGCTACCTC 19351 GAGAATGAG TGGGTGAGG TCCCTTGAGT CAACAAAG GACCACACA 19401 TGAGTTATGA TTCTATGATT TCACCACTCC ATTCCAGCCT GGGCGACAGA 19401 TGAGTTATGA TTCTATGATT TCACCACTCC TCACTACAAC CTGCACCTC 19551 CAGGCTGAAG TGCAGTGTA CGACTCTCC CTCACCACC CTCCACCTCC 19551 CAGGCTGAAG TGCAGTGGTA CGACTCTCC CCCAGCACTC CTCCACCCC 19551 CAGGCTGAAG TGCATGCCT CCCCACACAC CTCCCCCC 19551 CAGGCTGAAG TGCAGGCTT GTTTGAGCT CCCTGACCCC CTCACCACC CTCCCAAAAA AATTTTTTTATTATTATTATTATTATATATA						
18651 GACAGGCCCA GAGTTATTAA GTTGGACACT GCTTTAAGCA ACTTTGTAAA 18701 CAATCCAAGG CATACTAGAG AATTAGAGA GATTGGCTTT GTGTATGAGC 18751 AATAACAAAA TCAAGTTCAA TCCAGCAAGT TTTTGGGAAA TTATAAATTCA 18801 AAACTCAAAT ACTGATCTG GAAGAAACTT GGAAGAGGG AAGGAAGCA 18851 GGCTTGTTC TTCATGGCAT TCCCCATGTA GGAAGAGGG AAGGAAGCA 18901 ATTTTGCTT TTCATGGCAT TCCCCATGTA GGTGCCCTAG ATTTTTTTTT 18951 TACAGTGGGT ACGACTTCAT GTGGATCACC CCACCACCTT TGCCTGGTTC 19001 CCCAAGGGAC CAAGGGAAGG TGTATTCAGG ATGATTCCT AAGTGAGGG 19051 TGGGGTCTGT GGCTGAGAAG ACTCTCAATA CCGCGGCACT CATTATAAGC 19101 CTCTGACACA GGAGATTCA ACTCCACCCG TGCAACAAG GAACAGGGG 19151 GGCAAGAGTA GTTACAGTTG CAGGCTGAGT CAGACTGTAGT 19201 TCCCAGTGCT TTGGGAAGCC AAGGTGGGGG GAACAGGGTG 19251 TTGAGACCA CCTGGGTGAC ATAATGAGAC CCTACCTGTA AGTCCAGCTG 19351 GAGAATGAG TGGGTGAGG TCCCTTGAGT CAGACAAG GACAGGGTG 19351 GAGAATGAG TGGGTGAGG TCCCTTGAGT CAGACAAG GACAGGGTG 19351 GAGAATGAG TGGGTGAGG TCCCTTGAGT CAGACACAG GACAGGTG 19401 TGAGTTATA TCCACACCT CTTACACT GAGCTGAGA 19451 GCAAGATTGT TTTTTTTTTTTTTTTTTTTTTTTTTTTT						
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18751AATAACAAAATCAAGTTCAATCCAGCAAGTTTTTGGGGAATTATAATTCA18851GGCTTGTTACAGCATTGTCAGGGTAAAAGGAAAATACCGTGCAGCTTTTTA18901ATTTTGCTCTTCATGGCATTCCCCATGTAGGTGCCCTAGATTTGTTTTT18951TACAGTGGTCACGACTTCATGTGGATCCACCCACCACTCTTGCCTGGTTC19001CCCAAGGACCAAGGGAAGGGTGATTCAGACTCCAATACCGCGCCACTAAGTGAGGGG19010CTCTGACACAGGGGATTCAAACTCCCACCGATGACTAGGAGACAGGGTG19101CTCTGACACAGGGAGATTCAACTCCCACCGTGCAACAAAGGAACAGGGTG19101CTCTGACACAGGAGATTCAACTCCACCCGTGCAACAAAGGACAGGGTG19201TCCCAGTGCTTTGGGAAGCACCTGGGTGACGCATTGCTTAATGCCTGTAA19201TCCCAGTGCTTTGGGAAGCACCTGGTGACCCTACCTGTAAGCACAGGT19351GAGAATGAGGTGGTGTGAGGTCCCTTGAGTCCAACACAAGGACTACTCTG19351GAGAATGAGGTGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT						
18801AAACTCAAATACTTGATCTGGAAGAAACTTGGAAAGAGGAAGGATGACA18851GGCTTGTTACAGCATTGTCAGGGTAAAAGAAAATACCGTGCAGCTTTTA18901ATTTGTCTCTTCATGGCATTCCCCATGTAGGTGCCCTAGATTTGTTTTT18901CCCAAGGGACCAAGGGAAGGTGTATTCAGCCACCACTCTTGCCTGGTTC19001CCCAAGGGACCAAGGGAAGGTGTATTCAGGATGATTGCTGAAGTGAGGGG19101CTCTGACACAGGAGATTCAACTCCACCGTGCAACAAGGAACAGGGTG19151GGCAAGAGTAGTTACAGTTGCAGGCTGAGTGCCATGGTTCATGCCTGTAA19201TCCCAGTGCTTTGGGAAGCAAGGTGGAGGCTATGCTGAGTCACTGGA19251TTGAGACCAGCCTGGGTGACATAATGAGACCCTACCTGTAAGCTACTCTG19351GAGAATGAGGTGGGTGAGGTCCCTTGAGTCCATACTCCAGCTACTCTG19351GAGAATGAGGTGCATGAGGTCCCTTGAGTCCAGGACTCCAGCTACTCTG19351CAAGGTTGAGTTCTTTTTTTTTTTTGAGACGGAGTCTCACTTCTCACC19401TGAGTTAAGATCCTTGATCTCCCTCAGCCTCCTCATACACCCTTCTCACC19501CAGGCTGAAGTGATTCTCTCCCTCAGCCTCCCGAGCCACTCTTCTCACC19501CAGGCTGAAGTGATTCTCTCCCTCAGCCTCCCGAGCAGCTGGGTATCAC19501CAGCCTCACATGTTCTTAAAAAAAAAACCAGGCTGAGCTACTGCCC19501CAGCCATTGTGTCTCTAAAAAAAAAAAACCAGGCTGGAGCTTGCAGCC19501TCAGGATAATCTTAAAAT<						
18851GGCTTGTTACAGCATTGTCAGGGTAAAAGGAAATACCGTGCACCTTTA18901ATTTGCTTCTTCATGGCATTCCCCATGTAGGTGCCCTAGATTTGTTTTT18951TACAGTGGTCACGACTTCATGTGGATCCACCCACCACTCTTGCCTGGTTC19001CCCAAGGGACCAAGGGAAGGTGTATTCAGAATGATTGCTGAAGTGAGGGG19051TGGGGTCTGTGGCGAGAGAACTCCCACCGTGCAACAAAGGAACAGGGTG19101CTCTGACACAGGAGATTCAACGCGTGAGTGCCAACAAAGGAACAGGGTG19201TCCCAGTGCTTTGGGAAGCCCAGGCTGGAGGATTGCTTGAATGCCTGTA19201TCCCAGTGCTTTGGGAAGCCATAATAAGACCCTACCTGTAATGCATGTA19301TTAAAAATTAGCCAGATTGGTGGTGTGCCCTATAGTCCAGCTACTCTG19351GAGAATGAGGTGGGTGAGGGTCCCTTGAGTCCAGGCAGTCGGGCGACGAGA19401TGAGTTATGATTCTATTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	18751	AATAACAAAA	TCAAGTTCAA	TCCAGCAAGT	TTTTGGGGAA	TTATAATTCA
18901 ATTTGCTTC TTCATGGCAT TCCCCATGTA GGTGCCCTAG ATTTGTTTT 18951 TACAGTGGTC ACGACTTCAT GTGGATCCAC CCACCACTCT TGCCTGGTTC 19001 CCCCAAGGGAC CAAGGGAAGG TGTATTCAGG ATGATTGCTG AAGTGAGGGG 19051 TGGGGTCTGT GGCTGAGAAG ACTCTCAATA CCGCGGCACT CATTATAAGC 19101 CTCTGACACA GGAGATTCA ACTCCACCG TGCAACAAAG GAACAGGGTG 19101 CTCCAGTGCT TTGGGAAGC AAGGTGGAGT GCATGCTTCA ATGCCTGTAA 19201 TCCCAGTGCT TTGGGAAGC AAGGTGGAGT GATTGCTTG ATGCCTGTAA 19201 TCCAGTGCT TTGGGAAGC AAGGTGGAGT GATTGCTTG ATGCCTGTAA 19201 TCCAGTGCT TTGGGAAGC ATAATGAGAC CCTACCTGTA CAAAAAAATT 19301 TTAAAAAATTA GCCAGATTGG TGGTGTGCGC CTATCGTGA GTCTAGGAGT 19451 GAGAATGAG TGGGTGAGG TCCCTTGAGT CAGGAGTTC GAGCTACCTG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19401 TGAGTTATGA TTCTATGATT TTTTTTTAGAG CGGAGTCTCA CTCTGTCACC 19551 CAGGCTCAAG TGCATGGGTA CGATCCTCTG CACCACCC CTCGACCCC 19551 CAGGCTCAAG TGCATGGTA CGATCCTCTG CACCACACC CTCGCACCCC 19551 CAGGCTCAAG TGCATGGTA CACCACTCC CCGAGCACCT GAGATTAAAA 19601 GCGGCCCCTT GTGTCAGCT AATTTTTTT TTTTTTAGA CACCACCCC CTCGCACCCCC 19751 CAGCCATTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAAACC 19601 ATTGGCCAAT TCATTAAAAT GCCACTCAC CTCGACCCTC 19901 TGAGTATGA TGGCAGCGT CTCTTCATT TGTTGAGCC 19901 TGAGTATGA TCCTCTCAA GCCTCCACCTCC GCCCAGCCAT 19901 TGAGTATGA TCCTCTCAA GCCTCCACTCC GTGTGAGCC CTCCCCAAAAT GCCACTCACT GTGTGAGCC CTTCTGCGCC 20001 ATTTAAGAC ACCCCTCC GTTCCACCCCCC GTCTCACCCCCCC 20101 TCCAGGATAA TTTTGATTAT AAGCATTCATT GTGTGAGCC CTTGCAGCCT 20101 TCCAGGATAA TTTTGATTAT AAGCATTCCAC GTGTATAAAA TTTTTGGGTC 20101 TCCAGGATGA TCCCCCCCC TCTCACCCCCCCCCCCCC						
18951 TACAGTGGTC ACGACTTCAT GTGGATCCAC CCACCACTCT TGCCTGGTTC 19001 CCCAAGGGAC CAAGGGAAGG TGTATTCAGG ATGATTGCTG AAGTGAGGGG 19051 TGGGGTCTGT GGCTGAGAAG ACTCTCAATA CCGCGGCACT CATTATAAGC 19101 CTCTGACACA GGAGATTTCA ACTCCACCCG TGCAACAAAG GAACAGGGTG 19151 GGCAAGAGTA GTTACAGTTG CAGGCTGAGT GCGATCGATA TACCCTGTAA 19201 TCCCAGTGCT TTGGGAAGCC AGGTGGTG GCGAACAAAG GAACAGGGTG 19251 TTGAGACCAG CCTGGGTGAC ATAATGAGC CCTACCTGTA ACGCCTGTAA 19301 TTAAAAATTA GCCAGATTGG TGGTGTGCG CTATAGTCCC AGCTACCTTG 19351 GAGAATGAGG TGGGTGAGGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAC 19401 TGAGTTATAA TTCTATGATT TCACCACTGC ATTCCAGCCT GAGGACGAG 19401 TGAGTTATAA TTCTATGATT TCACCACTGC ATTCCAGCCT GAGGCTGCAC 19401 CAGGCTGAAG TGCAGTGGTA CGATCTTGC CCCAGGAGTTC GAGGCTGCAC 19401 CAGGCTGAAG TGCAGTGGTA CGATCTTGC CCCAGCACCT CCTGGCCC 19551 CAGGTTCAAG TGGTTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGCT AATTTTTTTA TTGTTAGTAG AGATGGGGTT 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCCC 19751 CAGCCATTGT TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTCCAC CTGCCCCC 19901 TGAGTATGAC TCTTGAACT CTGTCTCATT GTGTGAGCCC ATTCCAGCCTC 19901 TGAGTATGAC TCTTGAAAT GCCACTCACT GACTTCCC CTTGCAGCCT 19901 TGAGTATGAC TCTTGAAATT AAAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTTGACATA TCATTAAAAT GCCACTCACT GACTTTCTCT TGAACTGCC 20001 TTCCAGGATAA TTTTGATTAT AAGCATTCATT GTGTGAGCCA CTTGCAGGGC 20001 TTCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCTGTGCA CTTGCAGGGC 20101 CTGTGTATGA TGCTCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTTGGG 20101 CTGTGTATGA TGCTCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTTGGG 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGT TGCCGGGATTAACA TTTTTGGTATGA TCCCTGCAG GTCACTTCA TTTTTTTTTT	18851	GGCTTGTTAC	AGCATTGTCA	GGGTAAAAGG	AAAATACCGT	GCAGCTTTTA
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19101 CTCTGACACA GGAGATTTCA ACTCCACCCG TGCAACAAG GAACAGGGTG 19151 GGCAAGAGTA GTTACAGTTG CAGGCTGAGT GCGATGGTTC ATGCCTGTAA 19201 TCCCAGTGCT TTGGGAAGCC AAGGTGGAGG GATTGCTTGA GTCTAGGAGT 19251 TTGAGACCAG CCTGGGTGAC ATAATGAGAG CCTACCTGTA CAAAAAAATT 19301 TTAAAAATTA GCCAGATTGG TGGTGTGCGC CTATAGTCCC AGCTACCTCTG 19351 GAGAATGAGG TGGGTGAGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTCACA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATTGCAC 19701 CCGCCTCGC CTCCCAAAAT GCTCGGACTT AAGACACAC CTCACCCCC 19751 CAGCCATTG TGTCCTCTAA AAAAAAACT AAGAAAAATGA AGAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGACCC 19901 TGAGTATGAC TCTGGAATGT AGCTCCACACAC GACTGCACCC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC 20101 ATTTTAAGAC AGCCAGCT AGCTCCACACAC GACTCACTC 20101 CTGTGTATGA TGCTCTTCCA GTTCCCACACA GATTCCAGTG TGTGTTTGGG 20101 ATTTTAAGAC AGCCCATCCAC GTCCCCACACAC GCCCAT 20201 TTAGCGATG TCTCGAACTG TCTGCACCCC CCGCCAT 20201 TTAGCGATG TCTCTTCCA GTTCCCACACA GATTCCAGTG TGTGTTTTGG 2021 TTAGCGATG TCTCAGATCA AGCCCTCAC TGCCCACAC 20201 TTAGCGATG TCTCAGATCA GTTCCCACACA GATTCCAGTG TGTGTTTTGG 2021 TTAGCGATG TCTCAGATCA GTTCCCACACA GATTCCAGTG TGTGTAATAC 20221 TTAGCGATG TCTCAGATCA GTTCCCACACA GATTCCAGTG TGTGTAATAC 20201 TTAGCGATG TCTCAGATCA GTTCCCACACA GATTCCAGTG TGTGTAATAC 2021 TTAGCGATG TCTCAGATCA GTTCTCAGATC TTCCTAGAG TCACCCTCCACCCCCCCCCC	19001	CCCAAGGGAC	CAAGGGAAGG	TGTATTCAGG	ATGATTGCTG	AAGTGAGGGG
19151 GGCAAGAGTA GTTACAGTTG CAGGCTGAGT GCGATGGTTC ATGCCTGTAA 19201 TCCCAGTGCT TTGGGAAGCC AAGGTGGAG GATTGCTTGA GTCTAGGAGT 19251 TTGACACCAG CCTGGGTGAC ATAATGAGAC CCTACCTGTA CAAAAAAATT 19301 TTAAAAATTA GCCAGATTGG TGGTGTGCGC CTATAGTCCC AGCTACTCTG 19351 GAGAATGAGG TGGGTGAGGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGAGTCTCC CCTCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTTATGATA AGAATAACAC CTGCACCTCC 19551 CAGCATTCTG GTTGCAGCT AATTTTTGT TTTTATAGAA GAGATTAAAA 19601 GCGGCCGCTT GTGCAGCT AATTTTTGT TTTTATAGA GAGATGAGGTT 19651 TCATCATGTT GGTCAGCTT GTCTTGAACT CCTGACCTCC GGTGACCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGACCA CTTGCAGCCTC 19901 TGAGTATGAC TCTGGAATGT AGCTCCACAC GACTGTGGTA TGAAATGGCT 19901 TGAGTATGAC ATCCCTTCCA GTCTCCACACA GACTTGTGTA TGAAATGGCT 19901 TGAGTATGAC ACCCTTCCA GTCTCCACACA GACTTCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTCTCCACACA GATTCCAGCC CTTGCAGCCAC 20001 ATTTTAAGAC AGCTCTTTGG TCTTCATGT GGCACTCTTC TGCCGGCCAT 20101 CTGTGTATGA TGCTGTTCCC TTGTACGTG GGCATCTTC TGCCGGATTA 20201 TTAGCGATG TGCTCCCCTCC ATTCCCAGAA GATTCCAGTG TGTGTTTTGGG 20201 TTTAGCGATG TCCCCCCTC ATTCCCAGA GATTCAACAC TTGCAGGCCA 20201 TTAGCGATG TCCCCCTCC ATTCCCAGA GATTCAACGT TGCTGTTTGGG 20211 TGACTGAAAG ATTCCTGCAC GTGATCTAA ATTTTTGGT 20211 TGACTGAAAG ATTAGACTTG GACAAATAAT AAGACTGTAT GAGGATCTC 20301 TGACTGAAAA ATTAGACTTG GAAAAATAAT AAGACTGTAT GAGGATCTC 20301 TGACTGAAAA ATTAGACTTG GAAAAATAAT AAGACTGTAT GAGGATCTC 20451 ACCCCACTCT TTTTTTTTTTTTTTTTTTTTTTTTTTT	19051	TGGGGTCTGT	GGCTGAGAAG	ACTCTCAATA	CCGCGGCACT	CATTATAAGC
19201 TCCCAGTGCT TTGGGAAGCC AAGGTGGGAG GATTGCTTGA GTCTAGGAGT 19251 TTGAGACCAG CCTGGGTGAC ATAATGAGAC CCTACCTGTA CAAAAAAATT 19301 TTAAAAATTA GCCAGATTGG TGGTGTGCGC CTATAGTCCC AGCTACCTGT 19351 GAGAATGAGG TGGGTGAGGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTG TCACTACAAC CTGCACCTC 19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCT CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGCCT GTCTTGAACT CCTGACCACC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGATTA CAGGCGTGAG CTACTGCCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAACT AAGAAAATGA AAAAAATGA 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCACTACCTAC GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAC CTTACTGCGCC 20001 ATTTTAAGAC AGTCTCTCAG GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20101 CTGTGTATGA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG TTGCCCTTGG TGTGTAATGC 20101 TTAGCGATG TCCTCCTTCC TTGTAACGTG TTGCCTTGG TGTGTAATGC 20101 TTAGCGATG TCCTCCCCTTC ATTCCTGCAG GTCATTTAGAG TCGTGTAATA 20251 ATTCCAAATC TACTGTCCAT TTGTAACGTG GTCATTTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG GTCATTAGAG TCATCGTACA 20201 TTAGCGATG TCCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGGAACAAAA 20351 CTATAGTTCC AAATCCATTT GGACAAGTAA TTTTTGGGTC 20451 ACCCCTTTTT TTTTTTTAG GAAAAATAAT AAGACTGTAT GGTAAGAAAAAAAAAA	19101	CTCTGACACA	GGAGATTTCA	ACTCCACCCG	TGCAACAAAG	GAACAGGGTG
19251 TTGAGACCAG CCTGGGTGAC ATAATGAGAC CCTACCTGTA CAAAAAAATT 19301 TTAAAAATTA GCCAGATTGG TGGTGTGCCC CTATAGTCCC AGCTACTCTG 19351 GAGAATGAGG TGGGTGAGGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTTT TTTTTTGAGA CGAGGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTC CCCAGCACT CAGGCTCCAC 19551 CAGGTTCAAG TGCAGTGGTA CGATCTCTC CCCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGAGTGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GGTGATCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGA GTACCAC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGACCAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19911 TGAATAGAC TCTGGAATGT AGCTCCATAC CTTACCTGCT GCCCAGCCAT 19921 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGCTCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20101 CTGTGTATGA TGCTCTTCA TTCTCAGTGT TGCTTTTGGT 20101 CTGTGTATGA TGCTCTTCCA GTTCCAGAA GATTCCAGTG TGTGTTTTGGT 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGT CAGGATTAAA TTTTTGGTTC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGT CAGGATTAAA TTTTTGGTTC 20101 CTGTGTATGA TGCTCTTCCA ATTCCTGCAG GTCATTTC TGCCGGATTT 20201 TTAGCGATG TCTCCAGTAC CTTCAACGT TGGGTTAATGA 20201 TTAGCGATG TCTCAGATCA GTGTATCTAG GTCATTAGAG TCATCGTACA 20201 TTAGCGATG TCTCAGATCA GTGTATCTAG GTCATTAGAG TCATCGTACA 20201 TTAGCGAAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20301 TGACTGAAAC ATTAGACTT GAAAAATAAT AAGCATTTAA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAA ATTCAATTG GAAAAATAAT AAGCCTGTAT GGTAAGAAAAAAAAAA	19151	GGCAAGAGTA	GTTACAGTTG	CAGGCTGAGT	GCGATGGTTC	ATGCCTGTAA
19301 TTAAAAATTA GCCAGATTGG TGGTGTGCG CTATAGTCC AGCTACTCTG 19351 GAGAATGAGG TGGGTGAGGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTG TCACTACAAC CTGCACCTCC 19551 CAGGTCAAG TGATCTCTC CCTCAGCCT CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGT 19701 CCGCCTCGC CTCCCAAAAT GCTGGACTC CCTGACCTCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AGAGAAAATGA CTACTGCCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGGGC CTTGCAGGCT 19901 TGAGTATGAC TCTGGAATGT AGCTCCTACT GTGTGAGCCA CTTGCAGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTACC CTTATCTGCT GCCCAGCAT 19951 TGAAATGGC ATCCCTTCCA GTTCCCAGAA GATTCCCAGT TGCAGCCAT 19951 TGAAATGGC ATCCCTTCCA GTTCCCAGAA GATTCCCAGT TGCGCCAT 1901 TTAAGAC AGTCTCTTGG TCTTCAGTGT GGCACTCTC TGCCGCAT 2001 ATTTTAAGAC AGTCTCTCG TCTCCAGAA GATTCCCAGT TGCGTATTC 20101 CTGTGTATGA TGCTCTTCA TCTCAGGT GGCATCTTC TGCCGGATT 20101 CTGTGTATGA TGCTCTTCC TTGTAACGT GGCATCTTC TGCCGGATT 20101 CTGTGTATGA TGCTCTTCC TTGTAACGT GGCATCTTC TGCCGGATT 20101 CTGTGTATGA TGCTCTCCA TTTCAGGT GAGAATAAA TTTTTGGTTC 20101 TTAAGCGAT TCCCAGATCA GTGTATCTAG TTGGTTAAAA AACATGTTAG 20201 TTTAGCGATG TCTCCAGATCA GTGTATCTAG TTGGTAATAA ACCATGTTAG 20201 TTTAGCGATG TCTCCAGATCA GTGTATCTAG TTGGGTAATAA 20301 TGACTGAAAA CCCCCTTC ATTCCTGCAG GTCATTAAAA AACATGTTAG 20201 TTAAGCGATG TCTCCAGATCA TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAA CCCCCATTTA GAAAAAAAAAAAAAAAA	19201	TCCCAGTGCT	TTGGGAAGCC	AAGGTGGGAG	GATTGCTTGA	GTCTAGGAGT
19351 GAGAATGAGG TGGGTGAGGG TCCCTTGAGT CCAGGAGTTC GAGGCTGCAG 19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTGC TCACTACAAC CTGCACCTCC 19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GCTGATCCAC 19701 CCGCCTCGCC CTCCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTAAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGGGTA TGAAATGAC 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCC CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCTCACT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20101 CTGTGTATGA TGCTGTTCC TTGTACGTG TGCCCTTGG TGTGTTTGGC 20101 CTGTGTATGA TGCTGTTCC TTGTAACGT TGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCC TTGTAACGT TGCCCTTGG TGTGTAATGC 20101 TTAGCGATG TCTCAGATCA GTGTACTAGA TTTTTGGGTC 20101 TTAGCGATG TCTCAGATCA GTGTATCTAG TTGCCCTTGG TGTGTAATA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG TTGCCCTTGG TGAGGATCAC 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG TTGCAGACCA TGAGGATTAAA 20351 CTATAGTTGC AATCCATT GAAAATAAT AAGACTTGTA TGAGGATCTC 20451 ACGCTGTTTT TTTTTTTTTA GAAATAAT AAGACTTGTA TGAGGATCTC 20451 ACGCTGTTTT TTTTTTTTTA GAAAAAAAAAAAAAAAA	19251	TTGAGACCAG	CCTGGGTGAC	ATAATGAGAC	CCTACCTGTA	CAAAAAAATT
19401 TGAGTTATGA TTCTATGATT TCACCACTGC ATTCCAGCCT GGGCGACAGA 19451 GCAAGATTGT GTTCTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTGC TCACTACAAC CTGCACCTCC 19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTGAACT CCTGACCTCA GGTGATCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTTCTTAA AAAAAAAACT AAGAAAATGA AAAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAAATGAC 19801 ATTGGCCAAT TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTCCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCATAC CTTATCTGCT GCCCAGCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20101 CTGTGTATGA TGCTCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAAA TTTTTGGTTC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGTTC 20101 TTTAGCGATG TCTCAGATCA GTGTATCTAG TGCCCTTGG TGTGTTAATA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA ACACTGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG TCATCGTACA 20301 TGACTGAAATC TCCCAGTT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAA ATTAGACTTG GAAAAATAAT AAGACTGTAA GGTGAGCAC 20401 GATGCAGAAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTA GAACATGT GAAAAATAAT AAGACTGTAC CTGCCAACC 20451 ACGCTGTTT TTTTTTTTA GAACATGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTTA GAACATGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTTA GAACATGT AGTGCACTCTCC CCCCAGGTTCA 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCCTTGTCT CCCAGGCTTCA 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCCTTTCT CCCAGGCTTCA 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCCTTTCT CCCAGGCTTCA 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCCTTTCT CCCAGGCTTCA 20501 AGTGCAGTGC TGTGATCTCG GCTCACTGCA AGCCCT TCCCAGGCTTCA 20501 AGTGCAGTGC TGTGATCTCG GCTCACTGCA AGCCTTTCT CCCAGGTTCA 20501 AGTGCAGTGC TGTGATCTCG CTCCCAAGTA GCTGGGACTA CAGGGGTTTC	19301	TTAAAAATTA	GCCAGATTGG	TGGTGTGCGC	CTATAGTCCC	AGCTACTCTG
19451 GCAAGATTGT GTTCTTTTT TTTTTTGAGA CGGAGTCTCA CTCTGTCACC 19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTGC TCACTACAAC CTGCACCTCC 19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GGTGATCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGGGCA CTTGCAGGCT 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGT GGCATCTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGT CAGGATTAAA TTTTTGGTC 20101 TTTAGCGATG TCTCAGATCA GTGTACTAGA GTCATTAAGA TTTTTGGTC 20201 TTTAGCGATG TCTCAGATCA GTGTACTAG GTCATTAATA AACATGTTAG 20201 TTTAGCGATG TCTCAGATCA GTGTACTAG GTCATTAATA ACCATGTTAG 20201 TGACTGAAAG ATTAGACTT GAAAAAAAAAAAAAAAAA	19351	GAGAATGAGG	TGGGTGAGGG	TCCCTTGAGT	CCAGGAGTTC	GAGGCTGCAG
19501 CAGGCTGAAG TGCAGTGGTA CGATCTCTC TCACTACAAC CTGCACCTCC 19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GGTGATCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAAT GGTAAGAAA 20351 CTATAGTTGC AAATCCATTT GAAAATAAT AAGACTGTAT TGAGGATCTC 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAAGACCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCC TCCCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCC TCCCAGGCTGC 20451 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG CTCCCAAGTA GCTCGGACTA CAGGTGTCCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTCGGACCAC 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGTCCA 20501 CCACCATGCC CAGCTAATTT TTTTTTTTTTT TTTTTTTTTT	19401	TGAGTTATGA	TTCTATGATT	TCACCACTGC	ATTCCAGCCT	GGGCGACAGA
19551 CAGGTTCAAG TGATTCTCTC CCTCAGCCTC CCGAGCAGCT GAGATTAAAA 19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GGTGATCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTG GGCATCTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT CCCTCTGCC CTGCAGAGCA 2051 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CCCCAGGTTCA 2051 CCACCATGCC CTGCATCTC GCTCCACCC CTGCAGGCCAC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CCCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTCGGACTA CAGGTGCTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTCGGACCT CCCAGGTTCA 20551 CCACCATGCC CAGCTAATTT TTTTGTATGTT TTTGGTAGAG ACGGGGTTTC	19451	GCAAGATTGT	GTTCTTTTTT	TTTTTTGAGA	CGGAGTCTCA	CTCTGTCACC
19601 GCGGCCGCTT GTGTGCAGCT AATTTTTGTA TTGTTAGTAG AGATGGGGTT 19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GGTGATCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCCTTGG TCTTCAGTGT GGCATCTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT CCCTCTGCC CTGCAGACCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT CCCCTGCC CTGCAGAGCA 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTC CCCAGGTTCA 2051 CCCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTCGGACTA CCCAGGTTCA 2051 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTCGGACTA CAGGTGCTCA 2051 CCACCATGCC CAGCTAATTT TTTTTTTGTATGTT TTTGGTAGAG ACGGGGTTTC	19501	CAGGCTGAAG	TGCAGTGGTA	CGATCTCTGC	TCACTACAAC	CTGCACCTCC
19651 TCATCATGTT GGTCAGGCTT GTCTTGAACT CCTGACCTCA GGTGATCCAC 19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGT CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCA GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAAGCCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCC TTCTGCCCACC 20451 ACGCTGTTT TTTTTTTTGA GATGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA	19551	CAGGTTCAAG	TGATTCTCTC	CCTCAGCCTC	CCGAGCAGCT	GAGATTAAAA
19701 CCGCCTCGCC CTCCCAAAAT GCTGGGATTA CAGGCGTGAG CTACTGCGCC 19751 CAGCCATTTG TGTCTCTTAA AAAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGACT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGCTCCTTGG TCTCAGTG GGCATCTTCT TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCC TTCTCCAGCC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	19601	GCGGCCGCTT	GTGTGCAGCT	AATTTTTGTA	TTGTTAGTAG	AGATGGGGTT
19751 CAGCCATTTG TGTCTCTTAA AAAAAAACT AAGAAAATGA AAAAAATGAC 19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGAC 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAAGCCC TTCTGCCCACC 20451 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	19651	TCATCATGTT	GGTCAGGCTT	GTCTTGAACT	CCTGACCTCA	GGTGATCCAC
19801 ATTGGCCAAT TCATTAAAAT GCCACTCACT GACTGTGGTA TGAAATGGCT 19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTTCTC CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA	19701	CCGCCTCGCC	CTCCCAAAAT	GCTGGGATTA	CAGGCGTGAG	CTACTGCGCC
19851 TTCCCTTTGA TGGACCGAGT CTGTCTCATT GTGTGAGCCA CTTGCAGGGC 19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGCTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	19751	CAGCCATTTG	TGTCTCTTAA	AAAAAAAACT	AAGAAAATGA	AAAAAATGAC
19901 TGAGTATGAC TCTGGAATGT AGCTCCTAAC CTTATCTGCT GCCCAGCCAT 19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGCTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA	19801	ATTGGCCAAT	TCATTAAAAT	GCCACTCACT	GACTGTGGTA	TGAAATGGCT
19951 TGAAATGGCC ATCCCTTCCA GTTCCCAGAA GATTCCAGTG TGTGTTTGGG 20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA	19851	TTCCCTTTGA	TGGACCGAGT	CTGTCTCATT	GTGTGAGCCA	CTTGCAGGGC
20001 ATTTTAAGAC AGTCTCTTGG TCTTCAGTGT GGCATCTTC TGCCGGATTT 20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA	19901	TGAGTATGAC	TCTGGAATGT	AGCTCCTAAC	CTTATCTGCT	GCCCAGCCAT
20051 TCCAGGATAA TTTTGATTAT AAGCATTGCA TTGCCCTTGG TGTGTAATGC 20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA	19951	TGAAATGGCC	ATCCCTTCCA	GTTCCCAGAA	GATTCCAGTG	TGTGTTTGGG
20101 CTGTGTATGA TGCTGTTCCC TTGTAACGTG CAGGATTAAA TTTTTGGGTC 20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20001	ATTTTAAGAC	AGTCTCTTGG	TCTTCAGTGT	GGCATCTTTC	TGCCGGATTT
20151 AGCCACTGCT GCTCCCCTTC ATTCCTGCAG GTCATTAGAG TCATCGTACA 20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20051	TCCAGGATAA	TTTTGATTAT	AAGCATTGCA	TTGCCCTTGG	TGTGTAATGC
20201 TTTAGCGATG TCTCAGATCA GTGTATCTAG AGTGTTAATA AACATGTTAG 20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20101	CTGTGTATGA	TGCTGTTCCC	TTGTAACGTG	CAGGATTAAA	TTTTTGGGTC
20251 ATTCCAAATC TACTGTCCAT TTAATCCATA CTTCATACGT TGAGGATCTC 20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20151	AGCCACTGCT	GCTCCCCTTC	ATTCCTGCAG	GTCATTAGAG	TCATCGTACA
20301 TGACTGAAAG ATTAGACTTG GAAAAATAAT AAGACTGTAT GGTAAGAAAA 20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20201	TTTAGCGATG	TCTCAGATCA	GTGTATCTAG	AGTGTTAATA	AACATGTTAG
20351 CTATAGTTGC AAATCCATTT GGACATGTAG TATGTCAGCC CTGCAGAGCA 20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20251	ATTCCAAATC	TACTGTCCAT	TTAATCCATA	CTTCATACGT	TGAGGATCTC
20401 GATGTCAGAA CCCCATTTAG TTCTCTGAGT GCTAAGCCCT TCTGCCCACC 20451 ACGCTGTTT TTTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20301	TGACTGAAAG	ATTAGACTTG	GAAAAATAAT	AAGACTGTAT	GGTAAGAAAA
20451 ACGCTGTTTT TTTTTTTGA GATGGAGTCT CGCTCTGTCA CTCAGGCTGG 20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20351	CTATAGTTGC	AAATCCATTT	GGACATGTAG	TATGTCAGCC	CTGCAGAGCA
20501 AGTGCAGTGG TGTGATCTCG GCTCACTGCA AGCTCTGTCT CCCAGGTTCA 20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20401	GATGTCAGAA	CCCCATTTAG	TTCTCTGAGT	GCTAAGCCCT	TCTGCCCACC
20551 CGCCATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGTGCTCA 20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20451	ACGCTGTTTT	TTTTTTTGA	GATGGAGTCT	CGCTCTGTCA	CTCAGGCTGG
20601 CCACCATGCC CAGCTAATTT TTTGTATGTT TTTGGTAGAG ACGGGGTTTC	20501	AGTGCAGTGG	TGTGATCTCG	GCTCACTGCA	AGCTCTGTCT	CCCAGGTTCA
	20551	CGCCATTCTC	CTGCCTCAGC	CTCCCAAGTA	GCTGGGACTA	CAGGTGCTCA
20651 ACTGTGTTAG CCAGGATGGT CTGGATCTCC TGACCTTGTG ATCCACCCGC						
	20651	ACTGTGTTAG	CCAGGATGGT	CTGGATCTCC	TGACCTTGTG	ATCCACCCGC

20701	TTCGGCCTCC	CNNNCTCCTC	COMMENCACO	COMON COON C	тестестоса
	CCCCACGCCT				
	ATTGGAGTGC				TGCCTCCCAG
				7	
	GTTCAAGTGA				
	GTGCACCACA				
20951			GTCTCGATCT		
	TTGCCTAGGC				
	TGGACCCCTC				
	TTTATGGATA				
	TAAGCGCATG				
	GTCTAAATTA				
	GCTAATAAGC				
	GAAGGAAAAC				
	ATTCAAATTG				
	TTAATTTTAA				
	TTCATGATGG				
21501	GAATGCTATT	TTCTTTTTTT	TTTTTCTTTC	ATAAAGATGC	ATATATTTGC
21551	ATGCTTTATT	TACCTGGGGC	TAACTCTTGC	ATCTTTTGCA	GATTCCGACA
21601	CCATAGCTGA	GTTACAGGAG	CTCCAGCCTT	CGGCAAAGGA	CTTCGAAGTC
21651	AGAAGTCTTG	TAGGTTGTGG	TCACTTTGCT	GAAGTGCAGG	TGGTAAGAGA
21701	GAAAGCAACC	GGGGACATCT	ATGCTATGAA	AGTGATGAAG	AAGAAGGCTT
21751	TATTGGCCCA	GGAGCAGGTA	GGAGGATTTT	AACATCATGC	TTTTCCACTT
21801	TCTGTACCGG	AGTGTTCATT	GCAAAGACGA	TAATCTGCTG	CACTGGCGTC
21851	TAGGATCAAG	CACGTTTTCC	TCTGTGACTC	TATATTTAAT	TATAGTTGGG
21901	GCAAAAAGGT	CTCTCATGTT	CTTAGCTCAT	CTTCTTGAAC	TGATGTTGGC
21951	TAATTTTGAA	GGCTCACAAA	TTCCTCTTGA	TGTATCATGT	TTCTATCGTT
22001	GTAATTTATT	TCAGAACCAA	GGTGGCCTTT	TAGCTAATGA	ATTTAAGATG
22051	ATCTTTTATG	ACCATTAGCT	GAGGACTCAG	GATATACATA	TGGTGGGGTG
22101	AATCAGATTG	CTTTTGTACA	CGCTTTAGGT	ATTTGTGTTG	TGGGCATATG
22151	GATTTGGTTT	TAAAACAGGC	CTTTGAAGAA	ATCAAATAAC	ATTCTTTGTT
22201	ATGTGGCTAG	GGAGTTGCTT	GTTTGAGAGC	AGGTAGAACG	TTATCTTTTT
22251	TGTTGTGGTA	TTTTTTTTTC	TTTTAAACAA	GGCTACTGTC	TCTAGACATA
22301	TTGATTCATT	TGCTGTGTTT	TAGAGAGATG	GCCGTCAGCC	TTGGAATTCA
22351	GAGAGTAATT	TATTACTTAC	AGACATTTTA	GTGCACATGA	TATGTCTGAT
22401	AATGTACCCA	GCTCTGCAGG	AAGCTTGCAA	AAGGAATAGA	AGTCCCATGG
22451	TTGCTATTTT	CAGTGTTTAA	AAACAACCTT	GGAAAGTGGA	GGAAAAATGC
22501	AAATGTATAA	AGCAGGTGCT	TACCAGCTAA	AGTATCACAG	AAGTGGGAGA
22551	GCAATTAGCA	AATTAATTAA	CGATGATGTG	AGGGGAGATG	TTGTGGGTGA
22601	GCAAGGGACA	GTTAGGGACA	GTTCTCACCG	ATGGGGGGAA	ATGTAGGTTC
22651	TCGGCAGAGA	GAAGTGATGA	GAACATGTTG	GGTAGAAGTG	TGACATTCTG
22701	GAGTACTAGA	ATGCTATGCA	AGTGTGTGTG	TGTGGGTGTG	TGTGTGTGTT
22751	CAGTGGTTCA	GAACAGACTG	GGAAATGGCG	AAATGAGGAC	ATTTGGGTGG
22801	GGAGGGGGAA	ATGGGTGGGA	AACTCAAGAA	CCTTTTTTTA	AAAAATTGTG
22851	GTAAAATATA	TATAACATAA	AGTGTACCAT	TTTAACCATT	TTTAAATGTG
22901	CAACTGAGTG	GTATTCAGTG	CATTCATGAT	GTTGTACAAC	CATGACCGCT
22951	CTCCATTTCT	AGAATTTTTC	TATCATCCCA	AACAGAAACT	CTCTATCCAT

23001 TATACAATAC CTCCCCATTC CCCCAAGAAC CAGTTTTTGA ATTGCAGTTT 23051 ACTTTGTGAG GCTGTTGGGG ATTATTTAGG CCTCTGGAAG GAGGAGGTTG 23101 GGATCAGAGT CTGGCCCTGT GGACTTCAAT GACTTTGTGT GGCCTCCAAT 23151 CAGAGAAGCA GCGGAGGGCA GGAAGCTGCT TGTCAGAATC TGAGAGTGAT 23201 GTGGCTTCTT TGTTTAGCAA TAAAATGTGA GCACATAATA GAAAGGAAAA 23251 GTGACAGGAC ATGGCAGATA ATTTGGAAGA GAGGAGTGGA AGATGCTCAC 23301 TCAGCCTCCC AGCTCCTGAG AAAGAACTGT GTCTCATCAG TTCATACTAC 23351 CTGAGCATCT GTTGTATCTG GTGTGTTTCT AGGTCCTGGA GAAGAGGCAT 23401 TACGTGTAGC CCTGACCTTG TGATGCTTAT GTTTTTGATG GGAAATAGTG 23451 CGTGTAAAAA GAAAATAATC CAACAGGCCA CACGGCAGGC AAACAATAGA 23501 GATATTCAAA TAGGTATACC TTCCTCCAGG TGAATGGCCT GAAATGACCG 23551 TGTGGAAGTG TGGGCTGGGG GCTTATAAAA TTATACACAT ACAGGCGCTA 23601 ACTAAAGCCG CCTATTCATT CCTTAAGAGG ATGCATAGAA AAGAAAAGTA 23651 GGGTCCTTAA CTGAGCCATT TGGAATTTAA GGGCATGAGA GAAGCCAGCA 23701 CAAGCAGTGA AGGGAAGGAA AAGAAGTGCC CGAGAGGAGG GAGGGATGCT 23751 GTTCTGCAGA CAAGGCCTGC CGCCTGGGAG AGGCCCGCAC GCCCACCCAG 23851 ATTTATTTAT TTATTTATTT TGAGACAGAG TCTCTGTCAC CCAGGCTGGA 23901 GTGCAGTGGT GCGATCTCAG CTCACTGCAA GCTCCGCCTC CCAGGTTCAC 23951 ACCATTCTCC TATCTCAGCC TCCCGAGTAG CTGGGACTAC AGGCGCCTGC 24001 CACAATGCCC GGCTAATTTT TTTGTAATTT TAGTAGAGAC GGGGTTTTAC 24051 CTCGTTAGCC AGGATGGTCT TGATCTCCTG ACCTCATGAT TCGCCCACCT 24101 CGGCCTCCCA AAGTGCTGGG ATTACAGGTG TGAGCCACTG TGCCTGGCCG 24151 ACTGTTCTA CTATTTTAGA GAGAGGGTCT CACTGTCATC TGTGCTGGAA 24201 TGCAGTGATG CAGTCATAGC TCACTGCACC CTCAAACTCC TGGGCTTAAG 24251 CGACCCTCCC GCCTCAGCCT CTTAAGTAGC TGGGACCATA GGCATGTGCT 24301 GCCACACCCA GTTAACTTTA TTATTTATTT ATTTATTTAG AGAATGAGTC 24351 TCATTCTGTT GCCCAGGCTA GAGGTGCAGT GGCACGATCT CGGCTCACTG 24401 CAACCCCGCC TCCCAGGTTC AAGCGATTCT TCTTGCTCAG CCTCCTGAAT 24451 AGCTGGGATT ACAGGCACCT GCCACCACAC CTGGCTAATT TTTGTATTTT 24501 TAGTGCAGAG GGGGGGTTTC ACCATGTTGG TCAGGCTGGT CTCGAACTCC 24551 TGACCTTGTG ATCTGCCTGC CTCGGCCTCC CAAAGTGCTG GGATTACAGG 24601 CGTGAGCCAC CGTGCCCGGC CCACTTTATT ATTTTAAAAA CATTGTTTTA 24651 TTTTTATTTT TTTGAGACAG AGTCCGCTGG AGTTCAGTGG CCGGATCTCA 24701 CTCACTGCAA CCTCTGCCTC CTGGGTTCAA GTGATTCTTG TGCTTCAGCC 24751 TCTCTAGTAG CTGGGACTAC AGGCGGGTGC CACCATGCCT GGCTAATGTT 24801 TTTTGTATCT TTTTAGTAGA GACGGGGTTT TGCCATGTTG GCCAGGCTGG 24851 TCTCGAACTC CTGACCTCAA GTGATCTGCC CACTTTAGCC TCTCAAAGTA 24901 CTGGGATTAC AGGCGTGAGC CACTGTGGCT AGCCCCCAGC TAACTTTAAA 24951 AAAAAATTTT GTGGGCCGGG TGCAGTGGCT CACGCCTGTA ATCCCAGCAC 25001 TTTGGAGGCC AAGCAGGCG GATCACTTGA GGTCGGGAGT TTGAGACCAG 25051 CCTGACCAAC ATGGAGAAAC CCTGTCTCTA CTAAAAATAC AAAAAATTAG 25101 CCGGGTGTGG TGGTGCATGC CTGTAATCCC AGCTACTTGG GAGCTGAGGC 25151 AGGAGAATTG CTTGAATCTG GGAGGCAGAG GTTGCAGTGA GCTTAGATCA 25201 CGCCACTGCA CTACAGCCTG GGCAACAAGA GCGAACACTC CGTCTCAAAA 25251 AAAAAAATA AATTATGTAG AGGTGGGATC TCCCTATGTT GCCCGGACTG

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	GTCTTGAACT				
	GTTGGGATTA				
	ATTTATTTT				
25451			GACAGAGTCA		
25501			TCCTTGGACA		
	AGAAGGATCA				
	TTCCCAAATG				
25651	AGGTAGTATA	TGGACAACCT	ATGTAAAAAC	ATTTAATAGT	TTAATATTAA
	CTAGCATATC				
25751	TGGGAGGCCA	AGGCGGGAGG	ATGGTTTGGG	CCCAGGAGTT	TGAGGCCAGC
25801	CTAGGTAACA	TGGTGAGACC	CTGTCTCTAA	AACAAAACAA	AACAAAACAA
25851	ACAAACAAAC	AAATAAACAA	ATCCCCTGTA	ACTTGTTCTA	ACAATAACCT
25901	AAACAATTTT	TTATTTAAAA	TTAAATAAAA	AAATTGAAAC	AGTAACCATT
25951	TTTTTTTTT	TTTTTGGAGA	CAGAGTCTTG	CTTTGTCACC	TAGTCTAGAG
26001	TGCAGTGGCA	CAATCTCTGC	TCACTGCAAC	CTCTGCCTTC	AAACAATTCT
26051	CCTGCCTCAG	GCTTCTGAGT	AGGTGGGATT	GATTACAGGT	GCACTCCACC
26101	ATGCCCAGCT	AATTTTTGTA	TTTTTAGTAG	AGACGGGGTT	TCACCATGTT
26151	GGCTAGGCTA	GTCTTGAACT	CCTGACCTGC	AGTAGTCCAC	GTGCCTTGGC
26201	CTCCCAAAGT	GCTGGGATTA	CAATCACAAA	TTTATAGAAA	AGTTGCAAGT
26251	ACCATGTAGT	CAGGGTTCTT	AAGAGAAATG	GAACCAGTAG	GAGATAGATA
26301	TATAATCATC	TCCTAGGATT	ATAAGTTGAC	ACATAAGACT	AACCGTCACA
26351	TACAGTATAA	ACAACTTTTT	TTCTTAAACC	ATTTGATAGA	TACACACACA
26401	CTGATATACA	TAGAATATAT	ATACACACAC	ACAGAATGTA	TATACACATA
26451	GAATATATGT	GCATACAGAA	TATATACACA	GAAATATATA	TGTACACATG
26501	CATAGAATAT	ATTTACATAT	ATATGCATAT	ATATAATTTA	TTTATTTTAA
26551	GCAGTTGATT	TATACAGTTT	TTGTTTTTGT	TTTTTTTTTG	AGACAGAGTC
26601	TCACTCTGTC	ACCCAGGCTA	GAGTGCAGTG	GCGAGATCTC	AGCTCACTGC
	AACCTCTGCC				
	GCACACCACC				
	GTTTCATCAT				
	CGCCCGCCTT				
	ACCTGGCTCC				
26901	CACGTGACAC	TTAATTGTCC	TGTCTCTTTA	GTCTCCTTCA	ATCTGGAGCA
26951			CTCTCATGAC		
27001	TAGGCCAGTT	ATTTTGTAAA	ATTTGAATTT	GTCTGATGTT	GCTTATGTTT
27051	AGATTTAGGG				
	TTCTTATTGC				
27151	TGTTGATGCT	CACTTTGATC	ACTTGATTAA	GGTGGTGTCA	GTTATGCCTT
27201	TCTACTTGTA	GGGTTACTCC	TTCCTCCTTC	GTGATTTTAT	TTATTTTATT
	TTTCTTAGAG				
	GGGATCTTGG				
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	AGCTACTTTT				
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27701				GTCTCCAAGA	
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	GTTTTCATTG				
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	GCGTGCACTC	-			
	TGTCTATATA				
	CTCAGCATTT				
	CAACACCAGC				
	AGGGAAAACC				
	CAGGGTTCAT				
28301	GACATTATAC	CCTTAATATG	TTTACTTATT	TTATGCATCT	GTATGCATCC
	AATCTACTGT				
	TCTGCTCTGG				
	CCTGTGATAC				
	CTTGGGACGG				
28551	GTGGATGCTT	ACCTTGTTCC	ACACCAGTGA	ATGGCTTCAG	GAAGAGAAGA
28601	GGAAGAGAAA	AATATTTACA	TTTAAAGAAA	GGTAGTTTAA	AGAAATATGT
28651	TAGGTAAAGA	ATTGAGCAGG	TAATATACGG	AGCTGGCAAA	AATTGTGACC
28701	AAAGTAGGTG	AATGATTGAG	ATTTATGCAA	TTCTGGGCTA	AGTGACAGCC
28751	CCTTCCCTTT	CCCTTCCCTT	CCCCTTCCCT	TCCCTTTTCT	TCCCTTTCCC
28801	TTCCCTTTCC	TTCCCTTTCC	CTTCCCCTTC	CCTTCCCTTT	CCTTCCCTTT
28851	CCCTCTTCTT	CCTTCCTTCC	TTCTGTTTTC	TTTTCCCTTC	TTTCCTTTGC
28901	CTTTTTTTT	TTTTTAAAGC	TAGAAACATC	AGTTTAGGCA	TAAAGACAGA
28951	GGAAAAGGCT	TCTTTTTCCT	CTCACAGTTC	TTTATAATTG	TCTAAGCAGT
29001	TTCTTTTTTC	CCTAGGTTTC	ATTTTTTGAG	GAAGAGCGGA	ACATATTATC
29051	TCGAAGCACA	AGCCCGTGGA	TCCCCCAATT	ACAGTATGCC	TTTCAGGACA
29101	AAAATCACCT	TTATCTGGTG	AGTCTTTACA	TCTGTCTCTC	TGGAATTAGC
29151	CTAGCACTCT	GACACTCAGA	TGCCTGTGGT	AGAACTGAAT	GTTGTTCTTG
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29251	CTGGTTTCCT	CGTTATAAAG	ATCAAGAGCT	AACCCATTTA	GAAACAGCCT
29301	CATTGGGCTG	AACGTGGTGG	CTCACGCCTG	TAATCCCAGC	ATTTTGGGAG
29351	GCCGAGGCGG	GTGGATCACG	AGGTCAGGAG	ATCAAGACCA	TCCTGGCTAA
29401	CACAGTGAAA	CCCCGTCTCT	ACTAAAAATA	CAGAAAAATT	AGCCGGGCAT
29451	GGTGTCGGGT	GCCTGTAGTC	CCAGCTACTC	AGGTGGCTAA	GGCAGGACAA
29501	TCGCTTGAAC	CTGGGAAGCG	GAGCTTGCAG	TGAGCCGAGA	TTGCGCCACT
29551	GCACTCCAGC	CTGGGTGACA	GAGCAAGACT	CTATCTCAAA	AAAAAAAAA
29601	AGAAAAAAA	AGAAACAGCC	TCATTGACAG	TTGGATATTG	TAGCTGTGGC
29651	TTTCAGGCAA	TAATAGGGAA	TCATTTATTG	GGGAATAGTC	TGTCATTATG
29701	TATAAGATAA	TCTTGCTTTA	ATTTTTAAAA	ACTTCCTGTG	TTAGCTTGCT
29751	TAGGATTAAA	AAAATGATAA	TAGTGCATGG	TTGTTATAAG	AAAATGCAAA
29801	CACTGCAGAC	ATGCATGAAG	TTGAAGGGAA	AGCCCCCCAT	TTTCTTTTCC
29851	TTTTCTTTTT	TTTTGAGACA	GAGTCTCGCT	TTGTCACCCA	GGCTGGAGTG

29951 GGGGGCACT ATCTCGGCTC ACTGCAATCT CCACCTCCCA GGTTCAAGAG 29951 ATCTTCTCC CTAGATACT GGATTACAGG CACGTGTCAC 30001 CACGCCCAAC TAATTTTTGT ATTTTTAGTA GACATGGGGT TITACCACGT 30051 TGGCCGGGCT GGCCGCAAAC TCCTGACCTC AAATGATCA CCTGCCTCGG 30101 CCTCCCAAAG TGTTGTGATT ACAGGAGTGA GCCACTGTGC CCGGCTCTC 30151 CGTTTTATTT TCTAATCCTC CTCCTAGGG GAAGAAATGT TAAATGGTTG 30251 GGGGATGTTT CTTTTCTTTT CTTCTTTTT TTTTTTT TGAAACCAGG TCTCACTTG 30251 GGGGATGTTT CTTTTCTTTT CTTTTTTTT TTT TGAGACCAGG TCTCACTTG 30251 GGGCATGTTT CTTTTCTTTT TTTTTTT TTT TGAGACCAGG TCTCACTTG 30351 CTCCCGAGC TGCAGCTACG TGCCACCCC GCACCCTCG 30351 CTCCCTAGG CTCAATTTTT TATTTTTAGT AGAACCAGG TTTTGCCATG 30451 TGCCCAGGC TGGAGTTCAG TGCCACCTC AGCCCTCGG GCATCACCA 30401 CTGTGCCTGG CTCAATTTTT TATTTTTAGT AGAACCAGG TTTTGCCATG 30510 GCCTTCCAAA GTGCTGGAGT TACAGGCTCAT TCCTGCCTTG 30551 GTGGGGGGAT ATCTCATATC CACATGGTT AAAGAGAATCT TCCTGCCTTG 30551 GTATCCCAGA CACCTTCT TCCTGCACT TAACTCATT TATAAAAATG 30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TAACGCAGGT CTTACACCAG 30751 GAATGCTAAA ATTCATTTTG GGCCTTGAT TAAGAAAATA 30751 GAATGCTAAA ATTCATTTTG GGCCTTGTT TAGGATTATA CACAGTTTAA 30751 GAATGCTAAA ATTCATTTTG GGCCTTGTT TAGGATTCTA GAGGATTAA 30801 TTCCTAAAAT TAACAAGTGT ATCCTGGAA CAATTTTTGT TCCTGATTCA 30901 ACGTAAGAGA AAAGGGTAAC ATGTTACCTT GAATGGAGAT AAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAAC ATGTTACCTT GAATGGAGAT AAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAC ATGTTACCTT GAATGGAGAC CAATTTTTGT 31001 AATAAGTTTA TGCTTGTGC TTTTGCTGATTCCTT TTTACCACGT 3101 ACCTTCAGAT TTTTTGGGGA ATTTTACCTT GAATGAAC CAATTTTTTTTTT	00001	acamaca a am	3 mamaaaaaa	አ ርጥርርን አጥርጥ	CON COMOCON	CCTTCAACAC
30001CACGCCCAACTAATTTTTTATTTTAGTAGAGATGGGGTTITACCACGT300101CCTCCCAAAGGGCGCCAAACTCCTGACCTCAAATGATCACCCTGCCTCGG30151CGTTTTATTTTCTAATCCTCCTCCCTAGGGGAAGAAATGTTAAATGGTTA30201CATAAGCTTTCCCTTATGGGCCTTAGTGGAGCATGGTG30301CCACCCAGGCTGGAGTTCAGTGGCATCACCTCTCACTTTG30301CCACCCAGGCCTGAGTTCAGTGGCATCACCAGCCTCCCGGCATACACCA30401CTGTGCCAGGCTAATTTTGTATTTTTTATTAGAGACGGGTTTTGCCATG30451TTGCCCAGGCTGGTTTCGAAGTCCTGAGCTAGAGACGGGTTTTGCCATG30501GCCTTCCAAAGTCTGGAGATACAGGTGTGAGAGACGGGTTTTGCCATG30501GCTTTCCAAAGTCTGGGATTACAGGTGTGAGAGACATTTCTCGCCTG30510GCTTTCCAAAGTGTCTTGGCTCTCCAGCTTGCTTTGCCTTTTCACCAGT30651GTATCCCAGGCATCCTTTCTTCCTGTGTGTGCTTTTACTTTTCACCAGT30751GAATGCTAAAATTCATTTTCTCCTGGATATTTATATATCATAAGTTACA30751GAATGCTAAAATTCATTTTCTCCTGGATATACTGGAGAATTCTTTTTTTCCTGATTA30851GCCCTTAAAAATTCATTTCTGGGCTTGTTTAGGTCAGAAAACGCTC30951TACTGGCCGTTTTTGGGGAATTGTCCTTTATCACTAAAACTTCACT30951TACTGGCCGTTTTTGGGGAATTGTCCTTTTACATAAAACGCCTC31051AGAGAGTTTTCTTGAGTAACCTACAGTGACCTT						
30051         TGGCCGGGCT         GGCCGCAAAC         TCCTGACCTC         CAAÂTGATCA         CCTGCCAAGA           30151         CGTCTTATATT         TCTAATCCTC         CTCCCTAGGG         GAAGAAATGT         TAAATGGTTA           30201         CATAAGCTTT         CCCTTTCTGA         CCCTTAACTG         TGCCTTTAG         GAGCATGGTG           30201         CATAAGCTTT         CCTTTACTT         CCCTTAACTG         TGCACTCTAG         GAGCATCGTG           30301         CACCCAGGC         TGGGATTCAG         TGGCATGAC         AGGCTCCCGG         GCAACCACG           30401         CTGTCCAGGC         TGGTTTCGAA         GTCCTGAGCT         AGGCACCATG         CCCCCACCT           30451         TTGCCAGGC         TGGTTCCAAA         GTCTGCAGAT         CACAGGTGT         CACAGGTGT           30551         GTGGGGATA         TTTCTATATC         CACATGTTA         TAGTTACCTT         CTCTGCACCT         TCCTGACTC         CTACTTATA           30651         GTATCCCAGA         CATCCTTTCT         TCCTCAACT         TTTCATATT         TTCCTAATT         TTTCCTAATT         TAACGCAGGT         CTACTTATAA           30751         GAATGCTAAA         ATTCATTTTG         GGCCTTAAAA         ATTCATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT						
30101CCTCCCAAAGTGTTGTGATTACAGGAGTGAGCCACTGTGCCCGGCCTCTC30151CGTTTTATTTTCTAATCCTCCTCCCTAAGGGGAAGAAATGTTAAATGGTTA30201CAATAAGCTTTCCCTTAACTGTGCCTCTGTAGGAGCATGGTG30301CCACCCAGGCTGGAGTTCAGTGGCATGAACATGGCTCACTGCATCACTTG30301CCACCCAGGCTGGAGTTCAGTGGCATGAACATGGCTCACTGCATACACCA30451TTGCCCAGGCTGGTTTGGAGTCCTGAGCTCAAGAGATCTTCTGCCTGG30451TTGCCCAGGCTGGTTTGGAGTCCTGAGCTCAAGAGATCTTCCTGCCTG30551GTGGGGGATATTTCTATATCCACATGTGTAAGCCACCATGCCCAGGTCCG30551GTAGGGGGATATTTCTATATCCACATGTGTAAGCCACCATGCCCAGGTCCG30601GTATCCCAGACATCCTTTCTTCCTGAGCTTGCTGTTGCCTTTCACCAGT30601GTATCCCAGACATCCTTTCTTCCTGAGCTTGCTGTTTCCTTTCACCAGT30701CTTTGAGCAGTCCTTAATTTTCCTTAATTTTCACCAGTTGATTATATTATAAGTTAGA30701GTATCCAAAATTCATTTTGGGCCTTGTTTAGGTTCTTGAGGGATTAAA30801TTCCTAAATTTAACATTTGATACTTCTTGTATGGTTTGTTAGGTTCTTGTCTTAAAATTGT30901ACGTAAAGAAAAAGGCTAACATTTGCTGTTTATTGCTGTTTATTGCTGTTCTTAAAATTA31001AATAAGTTTATGTGTCTTGCTCTGAGTGAGAACATTCACATATGAAATA31101TGGCAGACTGGCTTGAGAGATTCCTGATCATAGCAGCATCCTTTAAACTTC <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td>					0	
30151CGTTTTATTTTCTAATCCTCCTCCTAGGGGAGAAAATGTTAAATGGTTA30251GGGGATGTTTCCTTTACTTTCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT						
30201CATAAGCTTTCCCTTTCTGACCCTTAACTGTGCTCTGTAGGAGCATGGTG30251GGGGATGTTTCTTTTCTTTTCTTCTTTTTTTGAGACCAGGTCTCACTTG30301CCACCCAGGCTGGGATCAGTGGCATGAACATGGCTCACTGCACCCACCAC30401CTGTGCCTGGCTCACTTTGTATTTTAGTAGCACCAGGGCATACACCA30451TTGCCCAGGCTGGTTCGAAGTCCTGAGCTCAAGAGATCTTCCTGCCTTG30501GCCTTCCAAAGTGCTGGGATTACAGGTGTAGCCACCATGCCCAGCTCCG30551GTGGGGGATATTTCTATATCCACATGTGTATAGTTTACTTATAAAAATG30601GTATCCCAGACATCCTTTCTTCCTGGCTTAAGCAGGTCTACTTTATT30701CTTTGAGCAGTGGCATAATTTTCCTGAGTTGTATATACATAAGTTACA30751GAATGCTAAAATTCATTTTGGGGCCTTGTTTAGGTTCTGAGAGGATTAAA30851GCCCTTAAAAAGGGATAATATTTCCTGGAAAATTTTTGAGATGAGAAAAACAGGCTA30951TACTGGCCGTTTTTGGGGAATTTTCCTTAATTTTCTTAACAAGAGTTATTAAAATA30951TACTGGCCGTTTTTGGGGAATTTTCCTGTTTATTCCTGACCTAAAATA31051AGAAGATTTTCCTTGTCTCTCTGAGAGACCAGTGCCTG31051AGAAGATTTTCCTTGCTCTCTGAGAGACCAGTGCCTG31051AGCAGATTTTATTGGCTGACCACACGTGACCTTCAGAACAGATCCCAC31201AACTTTCACTGCTTTGAGACAACCTTCAGAACACATTCACACTTCCCAGATC3121ACCTTCAGGTTTTCTAGGG						
30251 GGGGATGTTT CTTTTCTTTT CTTCTTTTT TGAGACCAGG TCTCACTTTG 30301 CCACCCAGGC TGGAGTTCAG TGGCATGAAC ATGGCTCACT GCAGCCTCGA 30351 CTTCCTGGGC TCAGCAAAC CTCCCACCTC AGCCTCCCGG GCATACACCA 30401 CTGTGCCTGG CTCAGCAAAC CTCCCACCTC AGCCTCCGG GCATACACCA 30451 TTGCCCAGGC TGGTTTCGAA GTCTTGAGT CAAGAGATCT TCCTGCTTG 30501 GCCTTCCAAA GTGCTGGGAT TACTGTTAT AGAGGTGTG AGCCACATG CCCAGCTCG 30551 GTGGGGGATA TTTCTATATC CACATGTGTA TAGTTTACTT TATAAAAATG 30601 GTATGTTACT CTGTGCTTGG CTCTCAGCT TGCTGTTGCC TTCACCAGT 30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TACGCAGGT CTACCAGT 30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TACGCAGGT CTACCTTATT 30701 CTTTGAGCAG TGGCATAATT TTCCCTGATG TGCTGTTGCC TTCACCAGT 30751 GAATGCTAAA ATTCATTTTG GGGCCTTGTT TAGGTCTTG AGGGATTAAA 30751 GAATGCTAAA ATTCATTTTG GGGCCTTGTT TAGGTCTTG AGGGATTAAA 30801 TTCCTAAATT TAACAAGTGT ATCCTGGAAA CAATTTTTGT TCCTGATTCA 30851 GCCCTTAAAA GAGGACTAC ATGTTACCTT GAATGGAGAT AAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAAG AGGGATGAAC CACTCACTT 30901 ACGTAAGAGA AAAGGGTAG AGGGATGAAC CACTCACT 30901 ACATAAGTTTA TGTGTCTTGG TTTCATATTA GTTGAGAACC CAGTGCCTGG 31051 AGAGAAGTTT TCCTTGTGGT TTTATTCCTG ACCTAAAATT 30751 GAATGACACT GCTTTTTGGGA ATTTCACTATA TGTGAGAAC CAGTGCCTGG 31051 AGAGAAGTTT TCCTTTGTCT CTGAGTGAG ACCTCACAC TTCACATA ATGAATCTAT 31001 AAAAGTTTA TGTGTCTTGG TTCATATTA GTTGAGAAC CAGTGCCTGG 31051 AGAGAACTTT ACCTTGTGCT CTGAGTGG ACCTCACAC TCCACAGAG 31101 TGCGAGACT GTTTCTAGGG TTGCTGGTT TCCTACATA ATGAATCTAT 31301 TGCAGTATT ACCTTGTGCT CTGAGTGG ACCTCACC TTCACAGAG 31251 ACCTTGGTGT TTTTCTAGGG TTGCTGGTT TCCAGGACA CTGTGCTGAG 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCACCC TCCTAGAGA 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCACCC CTCACAGAG 3151 ACCTTGACTG CAACCTCCC CTCTGGGTT TCCAGGACA CTGTTGCCTA 31551 ACTTGTATTA ACCTTGTGCT TACCCAGGCT TCCACAGAG CACCTCCC 31501 TCCAACCTC GACCTACAC TCCCTGGGTT CAAGCGATC CTCTGCCTCA 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTGG CAAGCGATC CTCTGCCTCA 31551 TTTTGTATTT TTAGTACGA CCCCCC CTCTGGCTT CAAGCGATC CCCTGGCTT 31501 GCCCCACGG CTACCAC CTCCGGGTT CCACCTCC CAAGTGCT 31501 TCCAGTGTG CAACCTCCC CTCGGGTT CCACCGCTC TC						
30301CCACCCAGGCTGGGGTTCAGTGGCATGAACTGCAGCAAACCTCCCACCTCAGCCTCCGGGCATACACCA30401CTGTGCCTGGCTAATTTTTTATTTTAGTAGAGACGGGGTATACACCA30451TTGCCCAGGCTGGTTTCGAAGTCCTGAGCTCAAGAGATCTTCCTGCCTTG30501GCCTTCCAAAGTGCTGGGTTACAGGTGTGCAAGAGATCTTCCTGCCTGG30501GCTGTGTACCTGTGGTGTGCTCTCCAGCTTGCTGTTGCCTTTCACACT30651GTATGCTCAACATCCTTTCTTCCTTGTCAGTAACACCAGTCTACTTATT30601GTATGCTAAACATCCTTTCTTCCTGGTTGTAACACGAGGTCTACTTATT30701CTTTGAGCAGTGGCATAATTTTCCTGATGTTATATATACAAGGTTAAA30851GCCCTTAAAAATCATTTGGGGCCTTGTTTAGGTTCTGAACACAGCTC30951ACCTAAAATAAAAGGGTAAGAGGGATGAACCAATTTTTTTTCCTGATTCA30951TACTGGCCCGTTTTTGGGGAATTTGCTGCTTTTATTCCTGACCTAAAATA30951TACTGGCCCGTTTTTGGGGAATTTGCTGCTTTTATTCCTGACCTAAAATA31001AATAAGTTTTGTGTCTTGCTCTGAGTGAGAACTTACAATATGAATCTAT31101TGGCAGACTGGCTTTAGACAAACACCCTTACCTTACAATATGAATCTAT31201AACTTCCTTCCTTGAGACATGCTTACATAATGCCTTAGA31201AACTTACATACCTTGGGTTTCCTGACTACAAAACACCCTTTCCAGGACAT31401TCCTGTACCCAGGCTAGTGTTACCAGGACATCTCTGGTTA31401TCCTGCCAGTAGCTGGAT						
30351 CTTCCTGGGC TCAGCAAAC CTCCCACCTC AGCCTCCGG GCATACACCA 30401 CTGTGCCTGG CTAATTTTTG TATTTTTAGT AGAGACGGGG TTTTGCCATG 30451 TTGCCCAGC TGGTTTCGAA GTCCTGAGCT CAAGAGATCT TCCTGCCTTG 30501 GCCTTCCAAA GTGCTGGGAT TACAGGTGTA AGCCACCATG CCCAGCTCCG 30551 GTGGGGGATA TTTCTATATC CACAGTGTA TAGTTACTT TATAAAAATG 30601 GTATGTTACT CTGTGCTTGG CTCTCAGCT TGCTGTGCCTTG 30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAC TAACGCAGGT CTACTTTATT 30701 CTTTGAGCAG TGGCATAATT TTCCCTGATG TGTATATATC ATAAGATTAGA 30701 CTTTGAGCAG TGGCATAATT TTCCCTGATG TGTATATATC ATAAGATTAGA 30751 GAATCCTAAA ATTCATTTTG GGGCCTTGTT TAGGTCTTTA AGGGATTAAA 30801 TTCCTAAATT TAACAAGTGT ATCCTTGAAA CAATTTTTGT TCCTTGATAC 309901 ACGTAAGAGA AAAGGGTAAA AGGGATAAAC 30991 ACCTTAGAGT TCCTTTGGGA ATTTGCCTT GCCCACTTAT CTTAAACTTC 30991 ACGTAAGAGT GTTTTGGGGA ATTTGCCTGT TTTATTCCTT ACCAAATA 31001 AATAAGTTTA TGTGTCTTGG TTTCATATTA GTTGAGAACC CAGTGCCTGG 31051 AGGAAAGTT TCCTTGTCCT CTGAGTGAGG ACATTCACAT ATGAATCTAT 31101 TGGCAGACTG GCTTTGACTG ACCACACGTG CCTTCAAGAAC CAATGCCACA 31201 AACTTTCCTT CCTTGAGGA TGGGGCATGG AACCCTCAC TTCACAGATG 31201 AACTTTCCTT CCTTGAGGA TGGGGCATGG AACCCTCAC TTCACAGATG 31351 AATGTATTAA CACATTTTA ATTTTTTTA TTTTTGAGAC AAAGTCTCAC 31401 TCTGTCACCC AGGCTAGGT TACCCAGGCT GGAGTGCAAT GTCTCACAGAT 31551 TTTTGTATTT TTAGTAGAG CGGGTTTGC CCATGTTGGT TGCCTCAATCT 31451 CAGCTCACC AGGCTAGGT TACCCAGGCT GGAGTGCAAT GTCTCACACT 31551 TTTTGTTTTTT TTAGTAGAG CGGGTTTGC CCATGTTGGT GGGCTTCCAAATCT 31551 TTTTGTTTTTT TTAGTAGAG CGGGTTTGC CCATGTTGGT GGGCTCCCAAAGTGC 31661 GAGGCCAACCT CGGGAGCA CTCCCGCC CTTGGCCC CCAAAGTGCT 31651 GGGATTACAG GGGCTACAC CTCGCCC CTTGGCCC CCAAAGTGCT 31651 GGGATTACAG GGGGTTGTG CCAGGGTTTG CCAAGGTCT TTTTTCTGAACA TTTTTTTTTT						
30401 CTGTGCCTGG CTAATTTTG TATTTTAGT AGAGACGGGG TTTTGCCATG 30451 TTGCCAGGC TGGTTTCGAA GTCCTGAGCT CAAGAGATCT TCCTGCCTTG 30501 GCCTTCCAAA GTGCTGGGAT TACAGGTGTA AGCACCATG CCCAGCTCCG 30501 GTGGGGGATA TTTCTATATC CACATGTGTA AGCACCATG CCCAGCTCCG 30501 GTATGTTACT CTGTGCTTGG CTCTCCAGGT TGCTGTTGCC TTTCACACAGT 30601 GTATGTTACT CTGTGCTTGG CTCTCCAGGT TGCTGTTGCC TTTCACACAGT 30601 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TACAGCAGGT CTACTTATT 30701 CTTTGAGCAG TGGCATAATT TTCCCTGATG TGTATATACA ATAAGTTAGA 30751 GAATGCTAAA ATCATTTTG GGCCTTGTT TAGGTTCTT AGGAATACAAATA 30801 TTCCTAAATT TAACAAGTGT ATCCTGGAAA CAATTTTTG AGGAATACA 30801 TCCTAAAAT TAACAAGTGT ATCCTGGAAA CAATTTTTG TCCTGATTCA 30801 ACGTAAGAGA AAAGGGTAAG AGGGATGAC TTCCTGATCA 30901 ACGTAAGAGA AAAGGGTAAG AGGGATGAC TCCCACATTAT CTTAAACATT 30901 ACGTAAGAGA AAAGGGTAG ATTCATTTG TTCCTGATTCA 30951 TACTGGCCCG TTTTTGGGGA ATTTGTGCT TTTATTCCTG ACCTAAAATA 31001 AATAAGTTTA TCGTTCTTG TTTCATATTA GTTGAGAACC CAGTGCCTGG 30101 AGAGAAGTT TCCTTGTCCT CTGAGTGAGG ACATCCACA ACCTAACAT 31101 TGGCAGACTG GCTTTGACTG ACCACACGTG CCTTCAGAAC CAATGCCACA 31151 GCTCTTAGGT TTATGGCCT AAACACCCTT TCCTTCAGAAC CAATGCCACA 31251 ACCTTTGGTG TTTCTAGGC TGCGTGGTGT TCCAGGACAC CATCCACAC 31251 ACCTTTGGTG TTTCTAGGG TGCTGGTGT TCCAGGACAC TTCACAGAGT 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAGAACCCC TCCAGAGAC 31401 TCTGTCACC AGGCTAGGT TACCCAGACC TCCAGAGCAT CTCACAGATG 31401 TCTGTCACC AGGCTAGGT TACCCAGGCT TCCAAGACC 31451 CAGCTCACCC CAACCTCCAC CTCCTGGGTT TACACAGAC CCCTCAATCT 31451 CCCCCAGG TAGCTGGGAT TACCCAGGCT TCCAATGTTC 31501 GCCTCCCAGG TAGCTGGAT TACCAGGCT TCTCATGTTC 31501 GCCTCCCAG TAGCTGGGAT TACCAGGCT CCTTTTCATT 31501 GCCTCCCAG TAGCTGGAC TCCTGGGTT TCCAGGACT TCTATGTTTC 31501 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT						
30451 TTGCCCAGGC TGGTTTCGAA GTCCTGAGCT CAAGAGATCT TCCTGCCTTG 30501 GCCTTCCAAA GTGCTGGGAT TACAGGTGTA AGCCACCATG CCCAGCTCCG 30551 GTGGGGGATA TTTCTATATC CACATGTGTA TAGTTTACTT TATAAAAATG 30601 GTATGTTACT CTGTGCTTGG CTCTCCAGCT TGCTGTGCC TTACTTTACT						
30501 GCCTTCCAAA GTGCTGGGAT TACAGGTGTG AGCCACCATG CCCAGCTCCG 30551 GTGGGGGATA TTTCTATATC CACATGTGTA TAGTTTACTT TATAAAAATG 30601 GTATGTTACT CTGTGCTTGG CTCTCCAGCT TGCTTTGCC TTTCACCAGT 30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TAACGCAGGT CTACTTTATT 30601 CTTTGACCAG TGCCATAAAT TTCCCTGATG TGATATATAC ATAAGTTACA 30701 CTTTGACAGA ATTCATTTTG GGGCCTTGTT TAGGTTCTTG AGGGATTAAA 30701 GCCTTAAAA ATTCATTTTG GGGCCTTGTT TAGGTTCTTG AGGGATTAAA 30801 TTCCTAAAAT TAACAAGTGT ATCCTGGAAA CAATTTTTGT TCCTGATTCA 30851 GCCCTTAAAA GAGGACTATC ATGTTACCTT GAATGGAGAT AAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAAA AGGGTACAC TCCCACTTAT CTTAAACTTC 30901 ACTGCCCG TTTTTGGGGA ATTTCATTTA GTTGAGAACC CAGTGCCTGG 31001 AATAAGTTTA TCCTTGGGA ATTTCATATA GTTGAGAACC CAGTGCCTGG 31001 AATAAGTTTA TCCTTGTCCT CTGAGTGAG ACATCACAT ATGAATCAT 31001 AGGAGAAGTT TCCTTGTCCT CTGAGTGAG ACATCACAT ATGAATCTAT 31101 TGCCAGACTG GCTTTGACCT ACACACCGTG CCTTCAGAAC CAATGCCACA 31151 GCTCTTAGGT TTATGGCCTG ACACACCGTG CCTTCAGAAC CAATGCCACA 31201 AACTTTCCT CCTTGAGACA TGGGGCATGG ACCCTCACC TTCACAGATG 31201 AACTTTCCT CCTTGAGACA TGGGGCATGG ACCCTCACC TTCACAGATG 31301 TGCAGTATTT ACCTTTGTGCT CTCTGCATCA TAAGCAGCTT CTTTTGCAGA 31301 TGCAGTATTT ACCTTTGTGCT CTCTGCATCA TAAGCAGCTT CTCTTGCAGA 31401 TCTGTCACC AGGCTAGTGT TCCTGCATCA TAAGCAGCTT CTCTTGCAGA 31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGACTA CTCTTGCAGA 31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGACTC CTCTTGCTCAATCT 31451 GGGCTCCCGAG TAGCTGCAC CTCCCTGGCTT TCATGGCAAT CTCTTGCCTCA 31451 GGGATTACAG GCCTAGAGT TACAGGTGCA TGACACCAC CCCTGAATCT 31451 CTCTGTCACC CAACCTCCC CTCCTGGGTT CAAGCGATTC CCAAGCTCAC 31401 TCTGTCACC ACCCTCCC CTCCTGGGTT CAAGCGATTC CCAAGCTCAC 31501 GCAGTCACTG CAACCTCCAC CTCCCTGGCTT TCTTTTCATT TTTTTTCTGA 31701 GATGAGACC CTCCCGCCTTT TCTTTTCATT TTTTTTCTGA 31701 GATGAGACC CTCCCGGCTT TCTTTTCATT TTTTTTCTGA 31701 GATGAGACC CTCCCGGCTT TCTTTTCATT TTTTTTCTGA 31701 GATGAGCT CTCTGCCC CTCGGGTT CCAACCTCC CCCAAACTCCAC 31801 TCAACTCCA CTCTGGCT CTGGGCTT TCTTTTCATT TTTTTTCTGA 31701 GATGAGCC CTCTGGGATC CTGGGCTT TCTTTTCATT TTTTTTCTGAC CAACCTCCC CTGGGTTAA GGGCTGCC AGGC						
30551 GTGGGGGATA TTTCTATATC CACATGTGTA TAGTTTACTT TATAAAAATG 30601 GTATGTTACT CTGTGCTTGG CTCTCCAGCT TGCTGTTGCC TTTCACCAGT 30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TAACGCAGGT CTACTTTATT 30701 CTTTGAGCAG TGGCATAATT TTCCCTGATG TGTATATAC ATAAGTTAGA 30751 GAATGCTAAA ATCATATTT GGGCCTGTT TAGGTTCTT AGGGTTCTTA AGGGAGTAAA 30801 TTCCTAAAAT TAACAAGTGT ATCCTTGGAAA CAATTTTTGT TCCTGATTA 30851 GCCCTTAAAA GAGGACTATC ATGTTACCTT GAATGGAGAT AAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAAG AGGGATGAC TCCCACTTAT CTTAAACTTC 30951 TACTGGCCCG TTTTTGGGGA ATTTGCTGCT TTTATTCCTG ACCTAAAATA 31001 AATAAGTTTA TGTGTCTT TTCCATATTA GTTGAGAACC CAGTGCCTG 31051 AGGAAGATT TCCTTGTCCT CTGAGTAGA CAATTCACAT ATGAATCTAT 31101 TGGCAGACTG GCTTTGACTG ACCACACGTG CCTTCACAAC CAATGCCACA 31151 GCTCTTAGGT TTATGGCCT AAACACCCTT TCCTTACAAA TAGAATCTAT 31201 AACTTTCCTT CCTTGACTG ACCACACGTG CCTTCACAAAC CAATGCCACA 31331 ACCTTGGTGT GTTTCTAGGG TGGGGCATGG ACCCCACCC TCCACGAGTG 31351 AACGTTGTTA ACCTTGTGCT CTCTGCATCA TAGAACC CATGCCTGA 31351 AACGTATTA ACCTTGTGCT CTCTGCATCA TAAGCACCT CTCTTGCAGA 31301 TGCAGTATTA ACCTTGTGCT CTCTGCATCA TAAGCACCT CTCTTGCAGA 31351 AATGTATTA ACCTTGTGCT CTCTGCATCA TAAGCACCT CTCATGTTTG 31351 AATGTATTA CAGACTTTTA ATTTTTTTA TTTTTGAGAC AAAGCCTTCAC 31451 CAGCTCACC CAGCTGTT TACCCAGGCT GAGGGACTAC CTCTTGCATCA 31551 TTTTGTATTT TAAGTAGAGA CGGGGTTTCG CCATGGTCT CTCATGTTCT 31451 CAGCTCACCT GAACCTCCAC CTCCTGGGTT CAAGCCACG CCCTGCTAAT 31551 TTTTGTATTT TTAAGTAGAGA CGGGGTTTCG CCATGGTCT CCAGGCTGA 31501 GCCTCCCGAG TAGCTGGACCA CTCCTGGGTT CAAGCCACG CCCTGCTAAT 31551 TTTTGTATTT TAAGTAGAGA CGGGGTTTCG CCATGGTCT CCAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTCCGGCTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCCTGTCA CCAGGCTGT CCAGGCTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCCTGTCA CCAGGCTGG CTCAGGCTC CCAGGCTTC CAAGCTCCC 31651 GGGCTGACC CTCGGGACCA CTCCCGGCT TCTTTTCCTTCA CCAGGCTGGA CAACCCCACG CCCTGCCTAAT 31751 CTCACTGCAC CTCGGGACCA CTGCGCCTT TCTTTTCATT TTTTTTCTGA 31801 TCCTGTGAG CTGGGACCA CTGCGCTT TCTTTTCATT TTTTTTTCGA 31951 GTTATAGGCC CTGGGACCA CTGCCCTCT TCTTTTCACC AACCTCCC 31801 TCCACTGCAC CTGGGACC						
30601GTATGTTACTCTGTGCTTGGCTCTCCAGCTTGCTGTTGCTTTCACCAGT30651GTATCCCAGACATCCTTTCTTCCTTGTCAGTAACGCAGGTCTACTTTATT30701CTTGAGCAGTGGCATAATTTTCCCTGATGTGTATATATCATAAGTTAGA30751GAATGCTAAAATTCATTTTGGGGCCTTGTTTAGGTTCTTGAGGGATTAAA30801TTCCTAAAATTAACAAGTGTATCCTGGAAACAATTTTTGTCCTGGATCA30851GCCCTTAAAAGAGGACTATCATGTTACCTTGAATGGAGATAAACAGGCTC30901ACGTAAGAGAAAAGGGTAGAAGGGATGACTCCCACTTATCTTAAACTTC30951TACTGGCCGTTTTTGGGGAATTTGCTGCTTTTATTCCTGACCTAAAATA31001AATAAGTTTATCCTTGTCCTCTGAGTGAGGACATTCACATATGAACCTG31101TGGCAGACTGGCTTTGACTGAACACCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACAAACACCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACATGGGGACTGAACCCTCACCTTCACAGATG31301TGCAGTATTAACCTTGGGCTCTTCGCATCAAACCTCACCTTCATGTTG31451CAGGTACACTGCAACCTCCACCTCTGGATTCTCTGACATCCTCTGCACTA31451CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATCCTCTGCCTCA31551TTTTGTATTTTTAGTAGAGACGGGGTTCACCCTTGGCCTCCCAACGTGCT31651GGGATTACAGGACCTCAGATGACCTCAGGTCAACCTCCCCCTGGGTTCCCAACGTGCTCCAACGTGCT						
30651 GTATCCCAGA CATCCTTTCT TCCTTGTCAG TAACGCAGGT CTACTTTATT 30701 CTTTGAGCAG TGGCATAATT TTCCCTGATG TGTATATATC ATAAGTTAGA 30701 GAATGCTAAA ATTCATTTTG GGGCCTTGTT TAGGTTCTTG AGGGATTAAA 30801 TTCCTAAATT TAACAAGTGT ATCCTGGAAA CAATTTTGT TCCTGATTCA 30801 TCCTAAAATT TAACAAGTGT ATCCTGGAAA CAATTTTGT TCCTGATTCA 30801 ACGTAAGAGA AAAGGGCTAC ATGTTACCTT GAATGGAGAT CAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAAG AGGGATGAAC TCCCACTTAT CTTAAACTTC 30901 ACATAAGGTTA TGTGTCTTGG TTTTATCCTT GAACAGGCTC 30901 ACATAAGGTTA TGTGTCTTGG TTTCATATTA GTTGAGAAC CAGTGCCTGG 31001 AATAAGTTTA TGTGTCTTGG TTTCATATATA GTTGAGAACC CAGTGCCTGG 31001 AGAGAAGTTT TCCTTGTCCT CTGAGTGAGG ACATTCACAT ATGAATCTAT 31101 TGGCAGACTG GCTTTGACTG ACCACACGTG CCTTCAGAAC CAATGCCACA 31151 GCTCTTAGGT TTATGGCCTG AAACACCCTT TCCTTACATA TTGCCTTAGA 31201 ACCTTGGTGT GTTTCTAGGG TTGCTGGTGT TCCAGGACT CTCACAGATG 31201 ACCTTGGTGT GTTTCTAGGG TTGCTGGTGT TCCAGGACAT CTGACAGAG 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCAGCT CTGTTGCAGA 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCAGCT CTCTACAGATG 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCAGCT CTCTACAGATG 31401 TCTGTCACCC AGGCTAGTT TACCCAGGCT GAACCCTCAC 31401 TCTGTCACCC AGGCTAGTT TACCCAGGCT GAACCCACA 31551 TTTTTTATTT TTAGTAGAA CGGGGTTTCC CAAGCGATC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGCAC CTCCTGGGTT CAAGCCACC CCCTGCTAAT 3151 TTTTTATTT TAGGTAGAA CGGGGTTTCC CATGTTGG GGCTCGATAT 3151 TTTTTATTT TTAGTAGAA CGGGGTTTCC CATGTTGT GACACCACG CCTGCTAAT 3151 GCAGTAACAC GCGTGAGCCA CTGCCGCTT TCTTTTCATT TTTTTTCTGA 31601 TCCAAACTCCT GACCTCACAC CTCCGGCTT TCTTTTCATT TTTTTTTCTGA 31751 CTCACTGCAC CTCCGCCC CTGGGCTT CCTTTTTCATT TTTTTTTCTGA 31751 CTCACTGCAC CTCCACCTC CTGGGTTAAA GTGACCACC CCTGGCTC CAAAGTGCT 31801 TCCTGTGTAG CTGGGACTAC AGGCGTTGC CACCGTCC AGCTAATTTT 31851 TATATTTTA GTAGAGACGG GGTTTTGCC TTGTGGCTC TGTCTTTCCTTTC						
30701CTTTGAGCAGTGGCATAATTTTCCCTGATGTGTATATATCATAAGTTAGA30751GAATGCTAAAATTCATTTTGGGGCCTTGTTTAGGTTCTTGAGGGATTAAA30801TTCCTAAATTTAACAAGTGTATCCTGGAAACAATTTTGTTCCTGATTCA30801ACCCTTAAAAAGAGGACTATCATGTTACCTTGAATGGAGATAAACAGGCTC30901ACGTAAGAGAAAAGGGTAAGAGGGATGAACTCCCACTTATCTTAAACTT31001AATAAGTTTATGTGTCTTGTTTCATATTAGTTGAGAACCAGTGCCTGG31051AGGAGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGAATCTAT31101TGGCAGACTGGCTTTGACTGACCACACGTGCCTTCAGAACCAATGCCACA31151GCTCTTAGGTTTATGGCCTGAAACACCCTTTCCTTACATATTGCCTTACAT31201AACTTTCCTTCCTTGAGACATGGGGCATGAACCCTCACTTCACAGATG31201AACTTTGGTTTCCTTGAGGTTTGCTGGTGTTCCAGGACTCTGATGCAGA31301TGCAGTATTTACCTTGTGTCCTCTGCATCATAAGCAGCTCTCATGTTG31351AATGTATTAACAGACTTCTAATTTTTTTTATTTTTTTTTGAGACAAAGCCCTCACCTCAGGACTCTCTGCATCA31401TCTGTCACCGGAGCTAGTGTTACCCAGGCTCAAGCGACTCTCTGCCTCA31451CAGCTCACGTCAACCTCCACCTCCTGGGTTCAAGCGACTCCATGTTCC31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTCCCCAAGTTCT31651GGGATTACAGGCCTCAGATGATCCTGCCCCTTGGCCTCCATGGCTCCCATGTTTT<						
30751 GAATGCTAAA ATTCATTTIG GGGCCTTGTT TAGGTTCTIG AGGGATTAAA 30801 TTCCTAAATT TAACAAGTGT ATCCTGGAAA CAATTTTTGT TCCTGATTCA 30851 GCCCTTAAAA GAGGACTATC ATGTTACCTT GAATGAGAAT AAACAGGCTC 30901 ACGTAAGAGA AAAGGGTAAG AGGGATGAAC TCCCACTTAT CTTAAACTTC 30951 TACTGGCCCG TTTTTGGGGA ATTTGCTGCT TTTATTCCTG ACCTAAAATA 31001 AATAAGTTTA TGTGTCTTGG TTTCATATTA GTTGAGAACC CAGTGCCTGG 31051 AGGAAGTTT TCCTTGTCCT CTGAGTGAGG ACATTCACAT ATGAATCTAT 31101 TGGCAGACTG GCTTTGACTG ACCACAGTG CCTTCAGAAC CAATGCCACA 31151 GCTCTTAGGT TTATGGCCTG AAACACCCTT TCCTTACATA TTGCCTTAGA 31201 AACTTTCCTT CCTTGAGACA TGGGGCATGG AACCCCCC TTCACAAC CAATGCCACA 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAGAACCCCT TCCAGGACAC CTGTTGCAGA 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAGACCCCC TTCACAGATG 31351 AATGTATTAA CAGACTTTTA ATTTTTTTA TTTTTGAGAC AAAGTCTCAC 31451 CAGCTCACC AGGCTAGTGT TACCCAGGTG GAAGGCACA GGGCTCACC 31451 CAGCTCCCGAG TAGCTGTAGAC CTCTGGGTT CAAGCGATC CTCTGCATCA 31451 CAGCTCACCG CACCCTCCAC CTCCTGGGTT CAAGCGATT TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGTAACAGT TACCCAGGTC CAAGCGATC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGGAT TACCAGGGTT CAAGCGATT TCTTGCCTCA 31501 TCTAAACTCCT GACCTCACC CTCCTGGGTT CAAGCGATT TCTTGCCTCA 31501 TCCAACCTCC CACCTCCAC CTCCTGGGTT TCTTTCATT TTTTTTCTGA 3151 TTTTTTTTTT TTAGTAGAGA CGGGGTTTCG CCATGTTGT GGGGCTGGTC 31501 TCAAACTCCT GACCTCAGAT GACCCCCC CCTTGCCCC CCAAAGTGCT 31501 TCCTGCACA CTTCCACCT CTGGGGTTAA GTGACACCAC CCCTGCTAAT 31501 TCCTGTCACA CTTCCACCT CTGGGGTTAA GTGACACCAC CCCTGCTAAT 31501 TCAAACTCCT GACCTCAGAT GACCACCAC CCCTGCCTC CCAAAGTGCT 31501 TCAAACTCCT GACCTCAGAT GACCACCAC CCCTGCCTC CCAAAGTGCT 31501 TCAAACTCCT GACCTCAGAT GACCACCAC CCCTGCCTC CCAAAGTGCT 31501 TCAAACTCCT GACCTCACC TTGGGCTTC TTTTTTTTTT						
30801TTCCTAAAATTTAACAAGTGTATCCTGGAAACAATTTTTGTTCCTGATTCA30851GCCCTTAAAAGAGGACTATCATGTTACCTTGAATGGAGATAAACAGGCTC30901ACGTAAGAGAAAAGGGTAAGAGGGATGAACTCCCACTTATCTTAAACTTC30951TACTGGCCGTTTTTGGGGAATTTGCTGCTTTTATTCCTGACCTAAAATA31001AATAAGTTTATGTGTCTTGGTTTCATATTAGTTGAGAACCCAGTGCCTGG31051AGGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGACTCAT31101TGGCAGACTGGCTTTGACTGACCACACGTGCCTTCAGAACCAATGCCACA31151GCTCTTAGGTTTATGGCCTGAAACACCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACATGGGGCATGAACCCTCACTTCACAGATG31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATAACAGACCTTCACCTCTGGGTTTTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGCCTCACCCTCTGGGGTCAAGCGATCTCTTGCCTCA31501GCCTCCCGAGTAGCTGGGATTACCAGGGTTCAAGCGATCTCTTGCCTCA31501TTTTGTATTTTTAGTAGAGACGGGGTTTGCCCATGTTGTGGCCTGCTAAT31501TCAAACTCCTGACCTCAGATGACCTCAGCCCTTGGCCTCCCTGCGTAAT31501TCACTGCAAGACCTCAGATGACCTCAGATGCATCTTTGCTCCCAGGGTTTGCCATGTTGTG3151CTCACTGCAACTCCTGGCAACTCGCCTCTTTCTTTCCTTCCCAGGCTTCTTCTTTCATTTTTTTT						
30851GCCCTTAAAAGAGGACTATCATGTTACCTTGAATGGAGATAAACAGGCTC30901ACGTAAGAGAAAAGGGTAAGAGGGATGAACTCCCACTTATCTTAAACTTC30951TACTGGCCCGTTTTTGGGGAATTTGCTGCTTTTATTCCTGACCTAAAATA31001AATAAGTTTATGTGTCTTGGTTTCATATTAGTTGAGAACCCAGTGCCTGG31051AGAGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGAATCTAT31101TGGCAGACTGGCTTTGACTGACCACACCTCCCTTCAGAACCAATGCCACA31251ACCTTAGGTTTATGGCCTGAAACACCCCTTTCCTTACATATTGCCTTAGA31251ACCTTGGTGTGTTTCTAGGCTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTGT31351AATGTATTAACAGACTTTAAATTTTTTTATTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGCCTCAATCT31501GCCTCCCGAGTAGCTGGGATTACCCAGGCTGGAGTGCAATTCTTGCCTCA31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGTCCATGTGTG31601TCAAACTCCTGACCTCAGATGATCTGCCGCCTTGGCCTCCCAAGTGCT31651GGGATTACAGGCTGGACTACCTGGGCTTTTCTTTTCATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	30751					
30901ACGTAAGAGAAAAGGGTAAGAGGGATGAACTCCCACTTATCTTAAACTTC30951TACTGGCCCGTTTTTGGGGAATTGCTGCTTTTATTCCTGACCTAAAATA31001AATAAGTTTATGTGTCTTGGTTTCATATTAGTTGAGAACCCAGTGCCTGG31051AGGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGAATCTAT31101TGGCAGACTGGCTTTGACTGACCACACGTGCCTTCAGAACCAATGCCACA31201AACTTTCCTTCCTTGAGACATGGGGCATGGAACCCTCACCTTCACAGATG31201ACCTTGGTGTGTTTCTAGGGTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATTAACAGACTTTTAATTTTTTTATTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGGCTCAATCT31451CAGCTCACGAGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCTTGCCTCA31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGTCCATGTGCT31601TCAAACTCCTGACCTCAGATGATCTGCCCGCCTTGGCCTCCCAAAGTGCT31751CTCACTGCAACTTCCACCTCCTGGGCTTTTCTTTCATTTTTTTTCTTG31801TCCTGTGTAGCTCCACCTCCTGGGTTAAAGTGATTCTCCGCAATCTCAG31801TCCTGTGTAGCTCAGGTGTGCACCGTGCCAGCTCATT31901AACTCTGACCTGAGGTATCCACCGTCTTGTGTTTAGCC31951GTTATAGGCGCTGAGGATCACACCGTCCTTGG						
30951TACTGGCCCGTTTTTGGGGAATTTGCTGCTTTTATTCCTGACCTAAAATA31001AATAAGTTTATGTGTCTTGGTTTCATATTAGTTGAGAACCCAGTGCCTGG31051AGAGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGAATCTAT31101TGGCAGACTGGCTTTGACTGACCACACGTGCCTTCAGAACCAATGCCACA31151GCTCTTAGGTTTATGGCCTGAAACACCCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACATGGGGCATGGAACCCTCACCTTCACAGATG31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATTAACAGACTTTTAATTTTTTTTATTTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGGCTCAATCT31401TCTGTCACCCAGGCTGGGATTACAGGTGCATGACACCACGCCCTGCTAAT31551ATTTTTTTTTTTAGTAGAGACGGGGTTTCGCCATGTGGTCTTGCCTCA31551TTTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTGGTGCGGCTGGT31601TCAAACTCCTGACTCAGATGATCTGCCGCCTTGGCCTCCAAAGTGCT31751CTCACTGCAACTTCCACCTCCTGGGCTTAAAGTACAGTCATGCAATCTCAG31801TCCTGTGTAGCTGCGGCTTAAAGTGATTCTCTGTCTTAGCCAGCTAATTTT31851TATATTTTTAGTAGAGACGGGGTTTTGCCATGTGGGCTCCAGCTAATTTT31901AACTCTGACCTCAGGTGTCCACCGTCTTGTGGGTTAGGCTGGTCTTG31901AACTCCTGAC						
31001AATAAGTTTATGTGTCTTGGTTTCATATTAGTTGAGAACCCAGTGCCTGG31051AGAGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGAATCTAT31101TGGCAGACTGGCTTTGACTGACCACACGTGCCTTCAGAACCAATGCCACA31151GCTCTTAGGTTTATGGCCTGAAACACCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACATGGGGCATGGAACCCTCACCTTCACAGATG31251ACCTTGGTGTGTTTCTAGGGTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATTAACAGACTTTTAATTTTTTTATTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGGCTCAATCT31451CAGCTCACGGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCTTGCCTCA31501GCCTCCCGAGTAGCTGGGATTACAGGTGCATGACACCACGCCCTGCTAAT31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGTGGGGCTGGTC31601TCAAACTCCTGACCTCAGATGATCTGCCCCCTTGGCCTCCCAAAGTGCT31701GATGGAGTCTTTCTCTGTCACCAGGCTGGAGTACAGTCATGCAATCTCAG31801TCCACTGCAACTTCCACCTCCTGGGTTAAAGTGATTCTCCTGTCTTAGCC31801TCTACTGACCTCAGGTGATCACCGTGCCAGCTAATTTT31851TATATTTTTAGTAGAGACGGGGTTTTGCCATGTGGGTTAGGCTGGTCTT31901AACTCCTGACCTCAGGTGAT	30901					
31051AGAGAAGTTTTCCTTGTCCTCTGAGTGAGGACATTCACATATGAATCTAT31101TGGCAGACTGGCTTTGACTGACCACACGTGCCTTCAGAACCAATGCCACA31151GCTCTTAGGTTTATGGCCTGAAACACCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACATGGGGCATGGAACCCTCACCTTCACAGATG31251ACCTTGGTGTGTTTCTAGGGTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATTAACAGACTTTTAATTTTTTTATTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGGCTCAATCT31451CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCTTGCCTCA31501GCCTCCCGAGTAGCTGGGATTACAGGTGCATGACACCACGCCCTGCTAAT31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGTGGGGCTGGTC31601TCAAACTCCTGACCTCAGATGATCTGCCGCCTTGGCCTCCCAAAGTGCT31701GATGGAGTCTTTCTCTGTCACCAGGCTGGAGTACAGTCATGCAATCTCAG31801TCCACTGCAACTTCCACCTCCTGGGTTAAAGTGATTCTCCTGTCTTAGCC31801TCTATTTTTTGTAGAGACGGGGTTTTGCCATGTGGGTTAGGCTGGTCTT31901AACTCCTGACCTCAGGTGATCACCCGTCTTGGCCTCCCAAAGTCTTGG31951GTTATAGGCGTGAGCCACTGTGCCCAGCCTCAGGCTTCTTTATTAAAAAAA32001AAGTTCGGGC <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
31101 TGGCAGACTG GCTTTGACTG ACCACACGTG CCTTCAGAAC CAATGCCACA 31151 GCTCTTAGGT TTATGGCCTG AAACACCCTT TCCTTACATA TTGCCTTAGA 31201 AACTTTCCTT CCTTGAGACA TGGGGCATGG AACCCTCACC TTCACAGATG 31201 ACCTTGGTGT GTTTCTAGGG TTGCTGGTGT TCCAGGACAT CTGTTGCAGA 31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCAGCTT CTCATGTTTG 31351 AATGTATTAA CAGACTTTTA ATTTTTTAT TTTTTGAGAC AAAGTCTCAC 31401 TCTGTCACCC AGGCTAGTGT TACCCAGGCT GGAGTGCAAT GGCTCAATCT 31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGATTC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGGGAT TACAGGTGCA TGACACCACG CCCTGCTAAT 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTT TCTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGAG CTGGGACTAC AGGCGTGGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTA GTAGAGACGG GGTTTTGCCA TGTGGTTCC TGTCTTAGCC 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCC AGCTAATTTT 31851 TATATTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAAAAA 32001 AAGTTCGGGC CAGGTGTGGT GGCCCAGCCT CAGGCTTCTT TATTAAAAAACG 32011 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31001	AATAAGTTTA	TGTGTCTTGG	TTTCATATTA	GTTGAGAACC	CAGTGCCTGG
31151GCTCTTAGGTTTATGGCCTGAAACACCCTTTCCTTACATATTGCCTTAGA31201AACTTTCCTTCCTTGAGACATGGGGCATGGAACCCTCACCTTCACAGATG31251ACCTTGGTGTGTTTCTAGGGTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTAACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31451AATGTATTAACAGACTTTTAATTTTTTATTTTTGAGACAAAGTCTCAC31451CAGCTCACCGCAGCTCACCCCTCCTGGGTTCAAGCGATTCTCTTGCCTCA31501GCCTCCCGAGTAGCTGGGATTGACACCACGCCCTGCTAAT31551TTTTGTATTTTAGTAGAGACGGGGTTTCGCCATGTTGGTGGGGCTGGTC31601TCAAACTCCTGACCTCAGATGATCTGCCCGCCTTGGCCTCCCAAAGTGCT31701GATGGAGTCTTTCTCTGTCACCAGGCTGGAGTACAGTCATGCAATCTCAG31751CTCACTGCAACTTCCACCTCCTGGGTTAAAGTGATTCTCTGTCTTAGCC31801TCCTGTGTAGCTGGGACTACAGGCGTGCCAGCTAATTTT31851TATATTTTAGTAGAGACGGGGTTTTGCCATGTGGGTTAGGCTGGTCTTG31901AACTCCTGACCTCAGGTGATCCACCCGTCTTGTGGCTCCAAAGTGCTGGG31951GTTATAGGCGTGAGCCACTGTGCCCAGCCTCAGGCTTCTTTATTAAAAAAA32001AAGTCGGGCCAGGTGTGGTGGCCTACCCTGTAATCCCAGCAATTTGGG32011AACATGGGAAACCTCGTCTCTACTAAAAATATAAAAAAATTAGGCAGGTA	31051	AGAGAAGTTT	TCCTTGTCCT	CTGAGTGAGG	ACATTCACAT	ATGAATCTAT
31201AACTTTCCTTCCTTGAGACATGGGGCATGGAACCCTCACCTTCACAGATG31251ACCTTGGTGTGTTTCTAGGGTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATTAACAGACTTTTAATTTTTTATTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGGCTCAATCT31451CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCTTGCCTCA31501GCCTCCGAGTAGCTGGGATTACAGGTGCATGACACCACGCCCTGCTAAT31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGTGGGGCTGGTC31601TCAAACTCCTGACCTCAGATGATCTGCCCGCCTTGGCCTCCCAAAGTGCT31701GATGGAGTCTTTCTCTGTCACCAGGCTGGAGTACAGTCATGCAATCTCAG31751CTCACTGCAACTTCCACCTCCTGGGTTAAAGTGATTCTCCTGTCTTAGCC31801TCCTGTGTAGCTGGGACTACAGGCGTGTGCCACCGTGCCAGCTAATTTT31851TATATTTTAGTAGAGACGGGGTTTTGCCATGTGGGTTAGGCTGGTCTTG31901AACTCCTGACCTCAGGTGATCCACCCGTCTTGGCCTCCCAAAGTGCTGGG31951GTTATAGGCGTGAGCCACTGTGCCCAGCCTCAGGCTTCTTTATTAAAAAA32001AAGTTCGGGCCAGGTGTGTTGCCCAGCCTCAGGCTTCTTTATTAAAAAAATATAAAAAAATAGGCAGGTA3201AACATGGTGAAACCTCGTCTCTACTAAAAAATATAAAAAAATTAGGCAGGTA <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
31251ACCTTGGTGTGTTTCTAGGGTTGCTGGTGTTCCAGGACATCTGTTGCAGA31301TGCAGTATTTACCTTGTGCTCTCTGCATCATAAGCAGCTTCTCATGTTTG31351AATGTATTAACAGACTTTTAATTTTTTTATTTTTGAGACAAAGTCTCAC31401TCTGTCACCCAGGCTAGTGTTACCCAGGCTGGAGTGCAATGGCTCAATCT31451CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCTTGCCTCA31501GCCTCCCGAGTAGCTGGGATTACAGGTGCATGACACCACGCCCTGCTAAT31551TTTTGTATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGTGGGGCTGGTC31601TCAAACTCCTGACCTCAGATGATCTGCCGCCTTGGCCTCCCAAAGTGCT31701GATGGAGTCTTTCTCTGTCACCAGGCTGGAGTACAGTCATGCAATCTCAG31751CTCACTGCAACTTCCACCTCCTGGGTTAAAGTGATTCTCCTGTCTTAGCC31801TCCTGTGTAGCTGGGACTACAGGCGTGTGCCACCGTGCCAGCTAATTTT31851TATATTTTTAGTAGAGACGGGTTTTGCCATGTGGGTTAGGCTGGTCTTG31901AACTCCTGACCTCAGGTGATCCACCCGTCTTGGCCTCCCAAAGTGCTGGG31951GTTATAGGCGTGAGCCACTGTGCCCAGCCTTGTGATTCCCAGCAATTTGGG32001AAGTTCGGGCCAGGTGTGGTGGCTTACACCTGTAATCCCAGCAATTTGGG32011AACATGGTGAAACCTCGTCTCTACTAAAAATATAAAAAAATTAGGCAGGTA						
31301 TGCAGTATTT ACCTTGTGCT CTCTGCATCA TAAGCAGCTT CTCATGTTTG 31351 AATGTATTAA CAGACTTTTA ATTTTTTA TTTTTGAGAC AAAGTCTCAC 31401 TCTGTCACCC AGGCTAGTGT TACCCAGGCT GGAGTGCAAT GGCTCAATCT 31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGATTC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGGGAT TACAGGTGCA TGACACCACG CCCTGCTAAT 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCGTCT TGGCCTCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGG GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGCAG CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31201	AACTTTCCTT	CCTTGAGACA	TGGGGCATGG	AACCCTCACC	TTCACAGATG
31351 AATGTATTAA CAGACTTTTA ATTTTTTTA TTTTTGAGAC AAAGTCTCAC 31401 TCTGTCACCC AGGCTAGTGT TACCCAGGCT GGAGTGCAAT GGCTCAATCT 31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGATTC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGGGAT TACAGGTGCA TGACACCACG CCCTGCTAAT 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGT GGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGT GGCCTAGCC AGATCTCGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTTA	31251	ACCTTGGTGT	GTTTCTAGGG	TTGCTGGTGT	TCCAGGACAT	CTGTTGCAGA
31401 TCTGTCACCC AGGCTAGTGT TACCCAGGCT GGAGTGCAAT GGCTCAATCT 31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGATTC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGGGAT TACAGGTGCA TGACACCACG CCCTGCTAAT 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCCTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31301	TGCAGTATTT	ACCTTGTGCT	CTCTGCATCA	TAAGCAGCTT	CTCATGTTTG
31451 CAGCTCACTG CAACCTCCAC CTCCTGGGTT CAAGCGATTC TCTTGCCTCA 31501 GCCTCCCGAG TAGCTGGGAT TACAGGTGCA TGACACCACG CCCTGCTAAT 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31351	AATGTATTAA	CAGACTTTTA	ATTTTTTTTA	TTTTTGAGAC	AAAGTCTCAC
31501 GCCTCCCGAG TAGCTGGGAT TACAGGTGCA TGACACCACG CCCTGCTAAT 31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31401	TCTGTCACCC	AGGCTAGTGT	TACCCAGGCT	GGAGTGCAAT	GGCTCAATCT
31551 TTTTGTATTT TTAGTAGAGA CGGGGTTTCG CCATGTTGGT GGGGCTGGTC 31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTTCATT TTTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31451	CAGCTCACTG	CAACCTCCAC	CTCCTGGGTT	CAAGCGATTC	TCTTGCCTCA
31601 TCAAACTCCT GACCTCAGAT GATCTGCCCG CCTTGGCCTC CCAAAGTGCT 31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTTCATT TTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31501	GCCTCCCGAG	TAGCTGGGAT	TACAGGTGCA	TGACACCACG	CCCTGCTAAT
31651 GGGATTACAG GCGTGAGCCA CTGCGCCTTT TCTTTCATT TTTTTCTGA 31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31551					
31701 GATGGAGTCT TTCTCTGTCA CCAGGCTGGA GTACAGTCAT GCAATCTCAG 31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA						
31751 CTCACTGCAA CTTCCACCTC CTGGGTTAAA GTGATTCTCC TGTCTTAGCC 31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31651	GGGATTACAG	GCGTGAGCCA	CTGCGCCTTT	TCTTTTCATT	TTTTTTCTGA
31801 TCCTGTGTAG CTGGGACTAC AGGCGTGTGC CACCGTGCCC AGCTAATTTT 31851 TATATTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA						
31851 TATATTTTA GTAGAGACGG GGTTTTGCCA TGTGGGTTAG GCTGGTCTTG 31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA						
31901 AACTCCTGAC CTCAGGTGAT CCACCCGTCT TGGCCTCCCA AAGTGCTGGG 31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA	31801	TCCTGTGTAG	CTGGGACTAC	AGGCGTGTGC	CACCGTGCCC	AGCTAATTTT
31951 GTTATAGGCG TGAGCCACTG TGCCCAGCCT CAGGCTTCTT TATTAAGAAG 32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA					•	
32001 AAGTTCGGGC CAGGTGTGGT GGCTTACACC TGTAATCCCA GCAATTTGGG 32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA						
32051 AGGCCGAGGT GGGCAGATCA GGAGGTCAGG AGATCGAGAC CATCCTGGCT 32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA						
32101 AACATGGTGA AACCTCGTCT CTACTAAAAA TATAAAAAAT TAGGCAGGTA						
221E1 POOPOOOOO POOOPOPARA COOLOGA COMA COOLOGA COOLOGA CA	32101	AACATGGTGA	AACCTCGTCT	CTACTAAAAA	TATAAAAAAT	TAGGCAGGTA
32151 TGGTGGCGGG TGCCTGTAGT CCCAGCTACT CGGGAGGCTG AGGGAGGAGA	32151	TGGTGGCGGG	TGCCTGTAGT	CCCAGCTACT	CGGGAGGCTG	AGGGAGGAGA

32201	ACGGTGTGAA	CCTGGGAGGC	GGAGCTTGCA	GTGAGCCCAG	ATTGTGCCAG
32251	TGCACTCCAG	CCTGGGTGAC	AGAGCGAGGC	TCCGTCTCAA	GAAAAAAAA
32301	AAAGACGTTC	CCTTGAAACA	ACAGGGCTTT	TGTTTGTTTT	GGTTTGTGTT
32351	TGTTTGTTAT	TGTTGTTTTA	GATACGTATT	TTTTTCTTTC	TTTTTTTTT
32401	TTAAGTGATG	ATGTCTCTGT	TGCAGTGGCA	TGATCATAGC	TCACTGTAAC
32451	CTCAAATTGC	AGGGCTCAAG	TGATTCTCCT	GCTTCACCTT	CCTGATTAGC
32501	TGGGACAACA	GGTACAAACC	ACCATGCCTA	GCGAATTTTT	AAATTTTTCA
32551	TAGAGACTAG	GGTCTCACTA	TGTTGCCTAG	GCTGGTTTCG	AACTCCTGGC
32601	CCCAAGTCAT	CCTCCTGCCT	TGGCTTCCCA	AATTGTTGGG	ATCACAGGCA
32651	TGAATCACCA	CACCCAGCCT	ATTTTTAGAT	ATTTTAATTC	GAGCTCTACA
32701	GGAGGTTTAG	AACACTAGCT	TGTGAAGATA	AACTTCATTT	TCAAGGCCAC
32751	ACAGAATCTA	AGTGGTCCTG	GAATTAGGAA	GGGCTTTGAT	TTTTTGGACC
32801	AAAGTTGAGA	GTCCACAGTT	TTCTGGTCTA	CCTTGCACTG	CTCCATAAAC
32851	TCATATTTCT	TTTCTCTGAG	CTGAAGAGCT	CCCCTTCTTG	GTGTCTAGTC
32901	TCAGGCAACT	TATTCTTAAA	AGTAAGCATT	ATTGAAATGC	TTTGGGATTT
32951	TCACATCATC	AAGGTCCATT	TTGGTAGAGG	CACTGACAGA	TTTTGAGTGT
33001	TCTGTGTGAA	GGAACTCAGT	TGAGGATTTA	GTGGTCCATG	TGGCAGGCTA
33051	CTGCTCAGTA	GCTTCAGGGA	AACCACTGCT	TGCCTCCCCT	GTGGCCAGTG
33101	AGGATGATCA	GAGGAGTCCC	AGCAGGAATG	CCCAAATGTA	GTTTTCTTAC
33151	ATGTTGATGG	GAGTGCATTG	TTTCATGTCT	AAACAGTTCT	CAAATCACAT
33201	CTTCAGGAGG	GTACTATCTG	GGCACTTTGA	TAATTTCTCA	CTTTGATGTC
33251	ACCGTTCTTA	TTACCATCAC	CTAGTTTTGT	CATAGTAGAA	ATAACTTTCC
33301	TTTTTCTGTG	TGTGTGTGTG	TGTGTGTGTG	TGTGTGTGTG	TGTGTGTTTT
33351	GAGATGGAGT	CTTGCCGTGT	TGCCCAGGCT	GTAGTGCAGT	GGCGTGTTCT
33401	CGGCTCACTG	CAACCTCTGC	CTCCCGGGTT	CTCCTGCCTC	AGCCTCCCGA
33451	GTAGTTGGGA	TTACAGGCGT	GTGACACCAC	GCCCGGCTCA	TTTTTGTATT
33501	TTCAGTAGAG	ATGGGGTTTC	ACCACTTTGG	CCAGGCTGGT	CTTGAACTCC
33551	TGACCTTGTG	ATCCGCCCAC	CTTGACCTCC	CAAAGTGCTG	GGATTGCAGG
33601	TGTGAGCCAC	CACGCCTGGC	TTTTTTTTT	TTTTTTTGA	GACAGAGTCT
33651	TGCTCTGTTG	CCCAGGCTGG	AGTGCAGTGG	CGGGATCTTG	GCTCACTGCA
33701	GCCTCCACCT	CCTAGGTTCA	AGCAATTCTT	CTGCCTCAGC	CTCCTGAGTA
33751	GCTGGGATTA	CAGGTGCCCA	CCACCATGTC	CGGCAAATTT	TTGTATTTTT
	AGTAGAGACA				
	CCCCAGGTGA				
	ATGAGCCACT				
	GCTGTGGACA				
	GGACTGTCTG				
	TTCCCCAATG				
	TTTTCCATCT				
	GTTTTTTGGT				
34201	TGGAGTTCAG	TGGCGCAATC	TCGGCTCAGT	GCAACCTCCA	CCTCCTGGGT
	TCAAGTGATT				
	GTGCCACCAT				
	CACCGTGTTA				
					CCGTGCCCAG
34451	CCTAGGAGGG	TTCTTAATGC	AGCTGTTTTT	TGGAGTTCTG	GTTGCCTCAG

34501	CACACTGCTA	CTTGGGTCAA	TGACATTTTT	ACTCCCTTGT	TTTGTAGCTC
34551	AATTGGGTAT	TACTGATGGG	ATTTTGTAAT	TTATTAATTAT	TTCTTGTCTC
34601	CATTTTCTTC	TCAAGTACTT	TGTTGCTTTT	GAGTAAAATG	CTTGCTAAGG
34651	GTATAGTTTT	CACATAAAAG	CTCAAATTTA	GCATGGAAAT	TAAGATATGC
34701	TCATACGTCT	GCCATCCCTT	ATCTGTAATT	CTGAAATACC	TAGAGTTCTG
34751	AATAACCTCA	AATTCTTTTG	TTACTTGTTT	ATCAGCAAAA	CCTGATTTGA
34801	ACTCAGTTTT	TGGCAAAACT	TGATCCAAGC	TCTCTTAAGG	CTCTTTTTAG
34851	TCTTTATTCA	TTCCCTTTAG	TGTGACTTCC	CATTTTGCTA	TAAAATTATG
34901	AGTGTGTTTG	ATTACAAGGT	GATGTCCCAG	ACCCTACTGA	GGGTGTTACA
34951	TAATATAAAC	TGTATGTATG	GCTGGGCGCG	GTGGCTTATA	CCTGTAATCC
35001	CAGCACTTTG	GGAGGCCGAG	GCGAGCGGAT	AACCTTAGTT	CAGGAGTTCA
35051	AGCCCAGCCT	GGCCAACATG	GTGAAACCCC	GTCTCTACTA	AGAATACAAA
35101	AATTAGCCAG	GCATGATGGT	GGGCGCCTGT	AATCCCAGCT	ACTCCTTAGG
35151	CTGAGGCAGG	AGAATCACTT	GAACCCAGGA	GGTGGAGGTT	GCAGTGAGCC
35201	AAGGTCATGC	CACTGCACTC	CAGCCTGGGC	GACAAAGCAA	GAATCTGTCT
35251	САААААААА	AAAAAAAAAG	TGTGTGTACC	ACTTTACCTT	TCTAAAATCT
35301	GAAAAATTCT	GAATCTGGAA	ACCCATTCTG	CTTCAAGATA	AATGGATCCT
35351	AGATTTATAT	CGGTACCGTA	CAGTCCTGAA	ATTCCATCCT	ATCTATTGGC
35401	CACTTTTACA	TCAACAAACC	TTTGAAGTTT	GGGGAAACTT	ACATATCACG
35451	CTCCCTTGGC	AGTTGAACAT	TATTTATTTA	TTTTGAGATG	GAGTCTCGCT
35501	TTGCCCAGGC	TGGAGTGCAG	TGGCGCGATC	TTGGCTCACT	GCAACCTCTG
35551	CCTCCCGGGT	TCAAGCAATT	CTCCTGCCTC	AGCCTCCTGA	GTAGCTGGGA
35601	TTATAGGCAT	GCAACACCAT	GCCCAGCTAA	TTTTTGTCTT	TTTAGTAGAG
35651	ACGGGGTTTC	ACTATGTTAA	CCAGGCTGTT	CTCGAACTCC	TGACCTTGTA
35701	ATCTTCCCTC				
35751				CAATGAAAAA	
35801				TGTCTCTTCT	
35851	GCCTCTGCTG	TGTGGGTTTC	AGGCATCCAT	CTTCTCTACT	CTGAATTACT
35901	GTGATAACCT	CTGAAGTATT	TTCCCTGCCA	TCTGTCTGGC	CCTTCTCCCA
35951	GGTCTTCCAC	ATACTGCAGC	CAAGTCAGCC	CGCTGTTGAA	ACCCTTCAAG
36001	ACTCCCTGCT	GTCCTCTGGA	TGAAGTCCAG	ACTCTTCCAC	GTGACTTACC
36051	AGGCCTTTCT	TGCACTTGTC	CCCAGCCACT	TACTGTTTCT	CTCTTTCTAC
36101	CTTAACATCC			GACCTTGCCT	CTGACCTTTT
36151		TCACTCTTTC			CTCTTTCTCT
36201				AGAAGCCCTT	
	ATACTTCTGG				
	TCTCCTTTAT				
	AAAGGGAGAG				
	ATGAATGTGT				
	TATTGTATTA				
	ACGTGTGTAA				
	AGTGCAAGGA				
	TTCCCATTTG				
	TTTTCTGGTC				
	TATATAACAA				
36751	CTCTGTTGAT	CTGGTTCATG	AAGAAATCTG	TTCAATTCTG	CATAACAGAT

36801	GCCTTCATCA	GTGTCCTTCC	ATGAAGGAGC	TGATCTTCAC	AAAGAACACA
36851	TAGTTTTGCA	TCCCACCACT	TGCAGTATTT	TTTTTTTTTT	TTTTTTTTT
36901	TTGAGATGCA	GTCTCGCTCT	GTCACCCTGG	CTGGAGTGCA	GTGGCATGAT
36951	CTCAGCTCAG	TGCAACCTCT	ACCTCCTGGG	TTCAATTGAT	TCTCCTGCCT
37001	CAGCCTCCTG	AGTAGCTGGG	ATTACAGGCG	CACACCACCA	TGCCTGGCTA
37051	ATTTTTGTTG	TTTTAGTAGA	GACGGAGTTT	CACCATATTG	GTCAGGCTGG
37101	TCTCAAACTC	TTGACCTCAT	GATCTGCCTG	CCTTGGCGTC	CCAAAGTGTT
37151	GGGATTACAG	GCGTGAGTCA	CTGTGCCCTG	CCAGTATTGT	TTTGTCTAAA
37201	TTATTTGTGC	TGATGTTTTT	CCTACTGTGG	TTTTCTTCAG	ATTACCCTTG
37251	CTCTGAGCCT	GCAATTGACT	CATGAACTTC	TTTTCCATGT	TCTAACCTTA
37301	CAATGACTTC	CTTGTGTTCA	CTCCAAATGT	TTTTCCCTGG	TTGCATGTAG
37351	AGATGTATTA	GCTAAGGTAC	ATGCTTAGCT	GCTGTATCAA	AGAGACCCTA
37401	ATGTACAACC	CAGGCTGGTA	GAGCAGCTCT	GCTGTATGTG	TTAATTCAGG
37451	GACCCAGGTT	CCTTCCATGT	TGTGACTCCC	CCCTTCCTTA	GGATGTTGTC
37501	TTCTTTTACA	TGGCTGAAGT	TGGGCCATTT	CATGTCTCTG	TTCCAGCTGC
37551	CTGGTAGGAA	AAAAGAACAG	AAATTCAGAG	TAAGCAAATT	CTTTTTCTAT
37601	AGATGGATGC	GGAAGTTGGA	CACATCATTT	CCTCTCACAT	TTTCTCGGCC
37651	AGAACGTAGT	CATGTGACTG	CACGTCTAGC	TGCTAAGGAG	ACTGGGAATT
37701	TACTGTCGGC	TGTGTGGCCT	CTGTCAAGCT	AAAATTCTTA	TTACTGTGGA
37751	ATAAGGGAAG	GATGGATTTG	GGGGCACAAT	TAATAGTCTG	TCACAGAGGC
37801	TAAAACAGCT	GCTTTTGGCT	GGGCACGGTG	GCTCACACAT	GTAATTTCAG
37851	CACTTTGGGA	GGCCGAGGCA	AGTGGATCAC	TTGAGATCAG	GAATTTGAGA
37901	CCAGCCTGGC	CAACATGGTG	AAACCCTGTC	TCTCCTAAAA	ATATAGAAAT
37951	TAGCCGGGCA	TGGTGGCGGG	TACCTGTAAT	CCGAGCTACT	CCAGAGGTTG
38001	AGGCAGGAGA	ATTGCTTGAA	CCTGGAAGGC	AGAGGTTGCA	GTGAGCCAAG
	ATGGTGCCAC				
38101	AAAAAAAAA	AAAGGTTAAA	TAAACAGCTG	CTTTTGTAGG	TGATACAAGG
38151	TACAGCTAAG	CTTTGAAGCC	AGGCCTGTAG	TTTCACCTTC	CATATTCTTA
38201	CTCAAGGCAT	TATACTTCTG	GATCTGAAAC	CACTGGATCT	GATGCCCTGC
38251	TTGGGATGAG	TTCTTTATAT	TATCTTGCTT	TCAACCCACA	CCTGTGTAAT
38301	TTTATGGGCA	GCGTTTGTTT	CCTATATAGG	AACAATTTGA	AAGTGGGCTG
38351	TTTCTAGGCT	TTCATGAATA	GCAGGCTATG	CTGTCATTGG	GAATCTGGAG
38401	GGAGTTAATG			· -	
38451			GACATGTGCT		
	ATTATCTGAT				
	GCTGCTGCTT				
	GGCTGTGACT				
					ATCGGTGAAA
	TGAGATATTA				
	TTGCCTTTGG				
	TTTTTTATTC				
	TCTACCATTT				
	CCCCATCCC				
					TGTCATCCAA
	GCTGGAGTGC				
39051	GCTCAAGCCG	TCCTCCCACC	TCACCCTCCT	GAGTAGCTGG	GACTATAGGC

39101	ATATACTACC	ATGCCCTGCC	ACCTTTTTAA	${\tt TTTTTTGTAA}$	GGATGGGGGT
39151	CTCACTGTGT	TGCTCAGGCT	GGTCTTGAAT	TCCTGGGCTG	AAGTGATCCT
39201	CCTGCTTCAG	CCTCCCCAAA	TGCCGGCATT	CCTGGCATGA	GCCACTGCAC
39251	TTGGCCAAGA	CTTTGCATTT	CTAACTAGTT	TCCAGGTAAT	GCTGCTGCTG
39301	GTGTAGGGAC	CTCATTTTGA	GAACCATTGT	TCTATAGCTG	TAGCTATAGT
39351	TAGTTTCTGG	TTATAGCTTC	TTCCTTTTGT	CCCTTCAGTA	ATAGTGTACA
39401	CATCCGAAAT	CCCTGTCCTT	GCTCTTTCAG	GCCCAGGCAT	GGTATCTGGT
39451	CCTCTTCTGT	TGCTAGCCCT	GGGGTGCTTC	ATCATCCCAA	GTTTATTTTT
39501	CTTCTCCTAA	CCTGAACCTT	TGTAAATAGC	CCCTTCCCTA	ATGAACGTCC
39551	TCAATTCCCT	GTTTTGCGTG	TCCTGTCTGT	TTCTTGGCAA	GACTCTGGAT
39601	GATTCAGTAC	TCAATGAGGA	TTTTTCGCAT	AGATGGATGA	AACAGGCTGG
39651	GTTTCATGTT	TTCTAAGATA	AAGGTGCTTC	TCTCTTTTTC	TCTTGGTCAC
39701	TTTGACCAAG	AAGAAAATAA	CAGAGTTTTT	ATTCTCAAGA	AGAATAATAT
39751	CGGGGCCACT	CTGCTCAGAG	GCCACTCTGC	TTTGAGGACC	CCTTCTCTCC
39801	TCCCTCATGC	CAAAGATCAG	GAACATTGGG	CAGAGCGGAT	AACGATGCCG
39851	CCAGCGTCAT	TACATTTTCA	CGGCACTTTC	AGTTGTGCTG	AGCGTGCAAA
39901	CATTTCAAGG	AGACATTTCT	AAGAGGTGGC	TAGCACAGCA	TGCCTCTAAT
39951	GCCCTATGTG	AATTGGAATA	GAGTACTAAA	GAACTGTTCA	ATATTCACCC
40001	CATCCCCGCA	TATGCAAGCA	TGCACGTGGG	TTCATTGTAT	ATGTGTGTGT
40051	GCACGTGTGC	ACAGACACAT	TTGTCCTTCG	TTTCAAATGC	AACACAATGG
40101	ATGGAAATTG	CCTTCCTGGT	ACTGGGGTAT	GGATGCAAAC	ACCAACAGAG
40151	AAGCAGCCGC	TACTTCCAAA	CTGAACACAT	GTGAGATTTG	CCCTTTAATT
40201	AGCATCTGCA	GCTGCTGCCA	TCAGAAGGGT	CTGTCTCTGT	TGGCCTGAAA
	GTCTTTGCTT				
	TGTCAGCTGC				
	GGGCTGTTTC				
40401	ATTACCATGC	CTTGGTGATC	CTCATTTGGG	TGACCTGCAG	CTGCTCATTG
40451	TGTGTGCAGG	AGACATCTCC	AGTCCTTGTA	AGGAGGGAAG	ATCACTGGCT
40501	TCAGTGCTGA	TGGACTGGTT	ATTTTCCAGC	CCTTTGTCGT	CAGTGATCTT
40551	GTCTTGATAT	GCAGAAAGGC	TCCAGGTAGT	CACTGAAAAA	AATATAAGCA
	GCAGAGGTGA				
	TATGGAAACT				
	CCTCCTCAGC				
	CACCGCAGTA				
	GTGATCCATG				
	GTGGTTGGGA				
	TTATTATTTT				
	AGCACATTGG				
	GACTGGCCTG				
	ATTAGCTGGG				
	TGAGGCAGGA				
	AGATCGTGGC				
	AAAAAAAACC				
	CTTTATGGAG				
	CATCTAGAAT				
41351	AGTCTATTTT	ATTTTCTTTT	AAATTI"I"ITAA	TTTTTTATTAG	AGGTGGGGTC

41401	TGGCTTTGTT	GCCCN AGCTG	CTCTCAAAAC	TCCTCCCCTC	<u>ል ል</u> ርርርል ጥጥርጥ
	ACTGCCTCAG				
	GCTTGTCTTA				
	GCTTGGGAAG				
	CAAGGCTATC				
	AGTAAAAGTC				
	AATGGACTCT				
	ATCATTTTCT				
	GAAGACTCAA				
	TCTTGGTACC				
	CCTGGGTCTT				
	GCTGTGGTTG				
	TAGAATGAGC				
	TCTTGGGATA				
	ATGGTGCACT				
	GGTCAAGTTT				
			TTGGCCTCAT		
42201	GCAGCTGTTG				
	AAGAAATGGG				
	TTTTCAGTTC				
	CTTTTTGCCA				
	TCATTGCAAA				
	AGTTTGTCAG				
	CTTTCTCAGC				
	TACAGCCATA				
	GTTCTTATTT				
	TATCTGTGAA				
					TTCACCCACA
42801			CCAGGTTGGG		
	CAGCCAGGTG				
	GTCTGCTAGG				
					TTTTTTTTTA
	GATGGAGTCT				
	CTCACTGCAA				
	TCCCGAGTAG				
					GGTGGTCTCG
					GTGCTGGGAT
					TTTTTCAGCA
					TCCAGTGTCT
					TAGATTCCCA
					CTTCTCCAGG
					CTGGAGATTT
					CTCTACTTCT
					AGCAGGAGTT
					TTGGAATGCA
43651	GTAGTTTGTG	AGATTTAGTG	TTTTTTTAA	GAAGTATATT	CAGATCTTGC

43701 CTTTTTCCCA GAAAGCATAT GAGACAACTT CCAAGACATT TATAGCATGG 43751 CTAATAAAAT GGGAAATCAG GGCGAAGGAC AGGAGAACTC AATAAGGGTT 43801 AACATGGCTA CAGCGATTGT CTAAATGGGT TCTTTTTGCT GGCCAGAGCA 43851 GAAAGGATCA TGCAGTAAAG TGGGGGGGAA GAAAGGGAAT TGAATGGTAG 43901 GTGAAGACTT CATGTTGGTG CCAGGCACTG TGCCAGGCCC TCCTAGGACC 43951 TTGTCTTACT CAATCCTCAC ACAGTGCTGC AAGAGGATTA GTCTTATCCC 44001 TGTTTTAGAG AGGATGAAAC TGAAAGGCAG CGAGGTGAAG TCACCAGCAG 44051 GAGGCTGAAG CCGCCCAGGC TAACTGGCCT TATAGCTACC TAGGGACTCA 44101 GGAATATCAC ACCTGTTTAT CATCAAAAGG AGAAAGGATT TCAGTTCCTT 44151 GGGGTAGAAG AGTTTCTTTT TGCTAATCAA ACATTTTACT TGAGGCTTCA 44201 TATTCTTCTT CAAGATTTTT TTCCTGTGTA TGTACCAACA CATGTAATAA 44251 TTCCTTGTTT ATTTCAAAAA AGGGGTTGTA CTTTATTCTT TACAAGATTT 44301 CACTTTATAT TGTCATGGAC AATTTTCCAT GGCAGTATGA ATAAATGGAA 44351 TCTGTTTGTT TTTAATATCT TTGTCTTATC CCATTGTTTA CATATGTCAT 44401 ATTTTAGCCA GTCTCTAACT GATGGATAGC TGAATGATTT CCATGTTTTT 44451 TTCCCCTGTT ACAAACAATA CTGCAAGGAA TCTATTTATC TTTCTATTTA 44501 TCTGCAAACT ATTGTAAGTA CCTGTAAATT GTTAGAAGTG GAATTACTAG 44551 GTCAAAGGGG ATATTTTCAC ATTTAAATTT TGAATAGAGG CTGTCAGTTG 44601 CCTTCCACAC TGACTATAAA AGGAAAAGAT TGTATCACAT TTATTGCAAG 44651 CCTTCTGTAT TCTGCTGGGT GCTGAGGGGA ATACAGAAAG GATATAAGAG 44701 TGGTTGCCCT CTAGGAATAT CCGTCTACAC TGTACCTAAT CCTAGGGAAT 44751 GTCTGGGGTG TCAACTTGTG GGTGGGAAAG TGGGTGGATT TAATTCAACT 44801 GTTCAAGCTT GCCTTGCAAA CACTGTGCAT GGTGTCTGGG ACTAGTCTTT 44851 CATTATATTG ATTCCCCTGG GTAACAGATG TAATTTCCTT AGGGCAGGGA 44901 CTTCATCCTA CATGACTTAC AGCGTGCCTT ACACATCTTC TTTGCTTTGT 44951 GGAGACCTTG TTATTATAAC ACGTCAGGTG ATATTCGAGG ATCTAATTGA 45001 GGCATTCCCT ATTTTTGGGT GTGTGAAGAA TTAATAACTT TGGCATTCTA 45051 TACAGGTCAT GGAATATCAG CCTGGAGGGG ACTTGCTGTC ACTTTTGAAT 45101 AGATATGAGG ACCAGTTAGA TGAAAACCTG ATACAGTTTT ACCTAGCTGA 45151 GCTGATTTTG GCTGTTCACA GCGTTCATCT GATGGGATAC GTGCATCGGT 45201 AAGTGAGACT CTGGTAGCAT TTTTATGCTG AGGATTTTCC TGTGTCGCAT 45251 AAGAGTTCCT GCATGGAAAT GAGTGGATGA GTGATTTCAA GATCAAGATA 45301 ACGCCCCATC CAGTTTTTAG CCAGTCTACC AATAACTGGC TGAAAGCAAA 45351 CTTTCCAAGA TGGAGGACAT TTCAGCTTGC TTATCCAGCA GTGCAATAGA 45401 TCTAGAATTG TAATGTGCTC AAGTTTGCTA GTAATATCTA TTAATGTAGC 45451 TAAATAAGAC TGGGAACTCT TGCATGGGTT CTTTGGGTTA TATGATAGAA 45501 GAACTGAATT TGGTTTGCAG AAGGAAATGT CATACCACAT AGTAGTGTAA 45551 GACCATGGAG CTGTACTTCT CTAACTCTGC CCGTTAGAAT TTACAATTTT 45601 TTTTTTTTT TTTTTTTTG AGACAGAGTC TAGCTCTGTT GCCAGGCTGG 45651 AGTGCAGTGG TACCATATTG GCTCATGGCA ACCTCCGCCT CCTGGGTTCA 45701 GGTGATTCTC CTGCCTCAGC CTCCCAAGTA GCTGGAATTA CAGGCACGCA 45751 CCGCCATGCC CAGCTAATTT TTGTATTTTT AGTAGAGATG GGGTTTCACC 45801 AGGTTGGCCA GGATGGTCTT GATCTCCTGA CCTCATGATC CACCCACCTT 45851 GTCCTCCCAA ATTGCTGGGA TTACAGGCAT GAGCCACCAT GCCTGGCCTA 45901 CAAAATCCTC AGTTGGTAAG TGGTTCTTCA TGTCTTCATT CATCTGATGT 45951 TTTGTGTACA TCTGAGAATG TTGTGGGAAT ACAATGATTG TTAGTCCAGG

46001	AATCACAAAA	TTTGAGATAG	AGTCTCAGCT	TTTCCATTGC	CTAGCTACAT
46051	GACCTTGGGA	AAATTTCATA	GCTCCTTTTG	GCCTTAGTTT	TCCTCATGTG
46101	AAATGTGTGT	CTCTAGGAGA	AATAATCCAT	TGAATAATAT	GTGTTTCATT
46151	TCTCTTCCTT	TTCTTTCTCT	CCTATCCTTC	CTTGCTCCCT	CTCGCCCTTT
46201	TTCTCTTTCC	CCCTCTCTCC	CTCTCTCTCT	CCTTCCTTCC	TTCCTTTCGG
46251	TTAAATTCAT	TTTGCAAAAT	GTATGCTAAT	AATTTATATC	CACCAATAGA
46301	GGAGGTCTAT	ATAACAGAAT	ACATAAACAA	AGATTTTTGG	CTCAATTGAG
46351	ATTCTAGGTT	AGCACTTGCT	TGCTGATTGG	GATGGAGGAG	GCAATTCATG
46401	GTCCTGATTT	TCTTACAGAG	ACATCAAGCC	TGAGAACATT	CTCGTTGACC
46451	GCACAGGACA	CATCAAGCTG	GTGGATTTTG	GATCTGCCGC	GAAAATGAAT
46501	TCAAACAAGA	TGGTAAAAAA	TGGAATAAGA	TAGCTTAATA	GAGTTTATAC
46551	TAAAAAGTAT	TCTTGGTCCT	CCTAAGTTTG	GGAAGTGTTG	GGATAAAATG
46601	GTGAACAATG	TTTTGGAGCC	TTTGGCAGTG	TATGGGGGTG	GGGACAGGGA
46651	CACAGAACCA	TTTCCCAGAC	CGTGGCACCT	TTTTATTTAT	AGTGCCTGTT
46701	AATACCCTCC	AAGACATTTT	TAGGAGCATT	GTTATAGTTT	GGTTAGAAAT
46751	AAAGGAAAAT	GCTTATTTTG	TTTCTCTCTT	CATTTTCCTT	GCCTGTTATA
46801	GACTGTCTTT	TGTTATATTA	TCTTTTTTAC	TTTAAAATAT	TTTGATGAAA
46851	TGGAAACTCC	TGCATGTCAA	ATCCTCTATT	TCCTATGCAG	CAAAATTGAA
46901	ATTAATCACT	GGAGCATTTG	AACCAAATAT	CCTTAAGTGT	TAAGAACCAA
46951	GTGCTCAAAA	TATCATTTTT	AAGTCTTGGA	TCTTTGGTAG	AAATTAAACT
47001	GTATTCCACA	TGCTAAGTAG	GACGGCAGGA	GGGTAGCTAC	TGAGATCAAG
47051	AGTGAGACTA	CTTTAGGAAA	AAGATGACAA	AGTAAAAAA	GATTAGAGTT
47101	TAAAAATCTT	CTAATAAAGT	TGGTATGTAC	TAAAATATGA	ATTTGGAAGT
47151	CAACTCCGCA	AAAAAGGATA	GGTCTAAGAG	AAAATCGACT	TAGGTTTTAA
47201	GACTGATTTT	ACAACTGAGC	CATTTGGTGA	CCTAGACAAA	TCCTTGGGAA
47251	CTTGATCTTT	TATACTTTCT	CTAGAAAAA	CTGATGCTAG	TGAAAATGCA
47301	TAATTTAAGA	GGTTAGAGAA	GCTGCTCTTC	AAAATGCCCC	CCAAGTCTGA
47351	GAGTTAAATC	CTTTACATAA	AGGACAATAT	GTAAAATTTT	CTTTTTCTTT
47401	TTTCTTTTTT	TTTGAGACGG	AGTCTCGCTC	TGTCCCCCAG	GCTGGAGTGC
47451	AGTGGCGCGA	TCTCGGCTCA	CTGCAAGCTC	CGCCCCCTG	GGTTCACGCC
47501	ATTCTCCTGC	CTCAGCCTCC	CGAGTAGCTG	GGACTGCAAG	CGCCCGCCAC
47551	CATGCCCAGC	TAATTTTTTG	TATTTTTAGT	AGAGACGGGG	TTTCACCGTG
47601	TTAGCCAGGA	TGGTCTCGAT	CTCCTGACCT	CGTGATCCAC	TCGCTTCGGC
	CTCCCAAAGT				
47701	TTTTCTTAAA	CTGCTTCCAG	AAAAGTGGAT	ATTATTAGGT	TGATGTTAAG
	AAAAGGCTTG				
47801	TGTTCTGCAG	ACCTGAGACC	TACTTGAGAT	AATTTTCTTG	GTGTTCAGGC
47851	CCTTGGAAAA	ATAAGTTCCC	TATGTTGTCC	AGTGTCAAAG	TTTCTCAACC
47901	TCAGCACTAT	TCTTTTTTC	AGGTTATTTT	CTTGTAATCT	GTTCACTTGA
	TCATTACATT				
	GTTTTAAAAA				
	AAATTTAGTG		•		
	TCACTTAGGA				
	TAATCCCAGC				
	ACCAGCCTGG				
48251	TTAGCCAGAC	ATGGTAGTAC	ATGCTTGTAG	CTCCAGCCAC	ATGGGAGGCC

48301 AAGACAGTAG GATCGCTGGA GCGAAGGAGG TTGAGGCTGC AATGACCGTG
48351 TTTGCACCAT TGCATTCCAG CCTGGGCGAC AGAACAAGAC CCTGTCTTAA
48401 AACAAATTTA TATGCTGCAT TCGTGAAATT AAAAAAAAAT CATGGATTTA
48451 GAAATAAATT GAAGCAAGGT ACATTGACAG TGTAACCTCA GCACTACTGA
48501 CATTTTGATC TGAATAATTC TTTGTTGTGG GGGATGCGCT GTATAAGATG
48551 TTTAGCTGCA TCCCTGACTC CTACCTCCTA GATGCCATTA GCACCCTCCC
48601 CTCCAGATGT GATAACCAAA AATGTCTCTA GACATTGCCA GATGTGCCTG
48651 GGGTAGGAGG GTTGGGGGAA GTGGGGTTTG AGAACCCTTA GTTGATCATG
48701 CCTGCAGTAG GTTGAGAAGC ATCAGAAAGC TAATTAATTA GACAGGAATA
48751 TGTGTTTGCA GTA (SEQ ID NO:3)

### FEATURES:

### Start: 3121 Exon: 3121-3216 Exon: 10089-10230 Exon: 21592-21767 Exon: 29016-29117

Genewise results:

Exon: 45056-45198 Exon: 46419-46530

Stop: 46531

### Sim4 results:

Exon:	2001-2040, (Transcript Position: 1-40)
Exon:	3108-3216, (Transcript Position: 41-149)
Exon:	10089-10230, (Transcript Position: 150-291)
Exon:	21592-21767, (Transcript Position: 292-467)
Exon:	29016-29117, (Transcript Position: 468-569)
Exon:	45056-45198, (Transcript Position: 570-712)
Exon:	46419-46764, (Transcript Position: 713-1058)

### CHROMOSOME MAP POSITION:

Chromosome 12

### ALLELIC VARIANTS (SNPs):

DNA

Position	Major	Minor	Domain
722	A	G	Intron
11380	T	- A	Intron
14282	G	С	Intron
30482	Α	G	Intron
30903	G	A	Intron
31969	T	С	Intron
33307	G	- T	Intron
38763	Α	G	Intron

38854	Α	G	Intron
46559	G	Α	Exon, 3' UTR
47193	G	Α	Intron
48129	T	С	Intron
48676	G	-	Intron

Context:

### DNA

### Position

722

CTTCCAGTTTTTTGCGAACACTATTTTGTATTCTTATACACATCTCTTGGTGTACATAAG
TAGGAGTTTCTCGCCGGCGTGGTGGCTCAGGGCCTGTAATCTCAGCACTTTGGGAGGCCG
AGGTGGGCAGATCACTCGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACACGGTGAAACC
CCATCTCTACTAAAAATACAAACAATTGGGCATGGTGGCATGCACCTGTAATCCCAGTTA
CTTGGGAGGATGAGACAAGAGAATAGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGGCG

11380

ATGGAGAAGGGCTGAGGAAGGCAAAAGTACCTAGGGCCTATGAAGTCATATATTGGCC
TTGCCTTCACCCTGTTTCTGACTTTGCTTGACTTCCATGTGATGAGGCAGTTGGCTGTTA
GTGTCCCAGTTTCATACTCTTACATTAGTGTTTTTCAACCAGTGGGTGATTTGACGTTTT
CGGTTGTCAGAGCTAGTTGGGGGGTGGTGGTGTGTGAGTTTTGGGGGGAAGGGTCCTACTGT
CAGTTAATGGGTGAGGCCAGAGATGCCACCAAACACCTTACAGTGCACAAAGCAGCCCCC

14282

30482

ATTTTTAGTAGAGACGGGTTTTGCCATGTTGCCCAGGCTGGTTTCGAAGTCCTGAGCTC

AGAGATCTTCCTGCCTTGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACCATGCC CAGCTCCGGTGGGGGATATTTCTATATCCACATGTGTATAGTTTACTTTATAAAAATGGT ATGTTACTCTGTGCTTGGCTCCAGCTTGCTGTTGCCTTTCACCAGTGTATCCCAGACA TCCTTTCTTCCTTGTCAGTAACGCAGGTCTACTTTATTCTTTGAGCAGTGGCATAATTTT CCCTGATGTGTATATATCATAAGTTAGAGAATGCTAAAATTCATTTTGGGGCCTTGTTTA

ATGTTACTCTGTGCTTGGCTCTCCAGCTTGCTGTTGCCTTTCACCAGTGTATCCCAGACA
TCCTTTCTTCCTTGTCAGTAACGCAGGTCTACTTTATTCTTTGAGCAGTGGCATAATTTT
CCCTGATGTGTATATATCATAAGTTAGAGAATGCTAAAATTCATTTTGGGGCCTTGTTTA
GGTTCTTGAGGGATTAAATTCCTAAATTTAACAAGTGTATCCTGGAAACAATTTTTGTTC
CTGATTCAGCCCTTAAAAGAGGACTATCATGTTACCTTGAATGGAGATAAACAGGCTCAC
[G,A]

CACTGCGCCTTTTCTTTTCATTTTTTTTCTGAGATGGAGTCTTTCTCTGTCACCAGGCTG
GAGTACAGTCATGCAATCTCAGCTCACTGCAACTTCCACCTCCTGGGTTAAAGTGATTCT
CCTGTCTTAGCCTCCTGTGTAGCTGGGACTACAGGCGTGTGCCACCGTGCCCAGCTAATT
TTTATATTTTTAGTAGAGACGGGGTTTTGCCATGTGGGTTAGGCTGGTCTTGAACTCCTG
ACCTCAGGTGATCCACCCGTCTTGGCCTCCCAAAGTGCTGGGTTATAGGCGTGAGCCAC
[T,C]

GTGCCCAGCCTCAGGCTTCTTTATTAAGAAGAAGTTCGGGCCAGGTGTGGTGGCTTACAC CTGTAATCCCAGCAATTTGGGAGGCCGAGGTGGGCAGATCAGGAGGTCAGGAGATCGAGA CCATCCTGGCTAACATGGTGAAACCTCGTCTCTACTAAAAATATAAAAAATTAGGCAGGT ATGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGAGAACGGTGTGA ACCTGGGAGGCGGAGCTTGCAGTGAGCCCAGATTGTGCCAGTGCACTCCAGCCTGGGTGA

TGAAGGAACTCAGTTGAGGATTTAGTGGTCCATGTGGCAGGCTACTGCTCAGTAGCTTCA
GGGAAACCACTGCTTGCCTCCCCTGTGGCCAGTGAGGATGATCAGAGGAGTCCCAGCAGG
AATGCCCAAATGTAGTTTCTTACATGTTGATGGGAGTGCATTGTTTCATGTCTAAACAG
TTCTCAAATCACATCTTCAGGAGGGTACTATCTGGGCACTTTGATAATTTCTCACTTTTGA
TGTCACCGTTCTTATTACCATCACCTAGTTTTGTCATAGTAGAAATAACTTTCCTTTTTC
[G,-,T]

FIG. 3X

AAATTGAAATTAATCACTGGAGCATTTGAACCAAATATCCTTAAGTGTTAAGAACCAAGT
GCTCAAAATATCATTTTTAAGTCTTGGATCTTTGGTAGAAATTAAACTGTATTCCACATG
CTAAGTAGGACGGCAGGAGGGTAGCTACTGAGATCAAGAGTGAGACTACTTTAGGAAAAA
GATGACAAAGTAAAAAAAGATTAGAGTTTAAAAATCTTCTAATAAAGTTGGTATGTACTA
AAATATGAATTTGGAAGTCAACTCCGCAAAAAAGGATAGGTCTAAGAGAAAATCGACTTA
[G, A]

> GGGTGTAGTGCCTCACACCTGTAATCCCAGCACGTTTGGAGGTCGAGGCGGGAGGATTGC TGGAGTTTGAGACCAGCCTGGGCAACAAAATGAGACCTAGTCTCTACAAAAAATCAAAAA

ATTAGCCAGACATGGTAGTACATGCTTGTAGCTCCAGCCACATGGGAGGCCAAGACAGTA GGATCGCTGGAGCGAAGGAGGTTGAGGCTGCAATGACCGTGTTTGCACCATTGCATTCCA GCCTGGGCGACAGAACAAGACCCTGTCTTAAAACAAATTTATATGCTGCATTCGTGAAAT

48676

 ${\tt TTTGAGAACCCTTAGTTGATCATGCCTGCAGTAGGTTGAGAAGCATCAGAAAGCTAATTA} \\ {\tt ATTAGACAGGAATATGTGTTTGCAGTA} \\$